



427 West 12800 South
Draper, UT 84020

Test Report Attachment

FCC ID	SWX-U7PROO
ISED ID	6545A-U7PROO
Equipment Under Test	U7-Pro-Outdoor
Test Report Serial Number	TR9497_03
Date of Tests	3-4 October 2024
Report Issue Date	14 February 2025

Test Personnel

Testing performed by	Evan Hartzell
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Test Location

Testing was performed at the Unified Compliance Laboratory located at 427 West 12800 South, Draper, UT 84020. Unified Compliance Laboratory is accredited by National Voluntary Laboratory Accreditation Program (NVLAP); NVLAP Code 600241-0 which is effective until 30 June 2025. This site has also been registered with Innovations, Science and Economic Development (ISED) department as was accepted under Appendix B, Phase 1 procedures of the APEC Tel MRA for Canadian recognition. ISED No.: 25346, effective until 30 June 2025. Unified Compliance Laboratory has been assigned Conformity Assessment Number US0223 by ISED and MRA US5037.



NVLAP LAB CODE 600241-0

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2 WiFi External Antenna

2.1 CCK Mode

NOTE: The first channel contains the equipment setting tables, if subsequent channels do not have an equipment setting tables then the equipment setting table is the same as the first channel.

Summary

Test	Frequency (MHz)	Nominal Bandwidth (MHz)	Result
RF output power	2412.000	20.000000	PASS
Minimum Emission Bandwidth 6 dB	2412.000	20.000000	PASS
Power Spectral Density	2412.000	20.000000	PASS
Occupied Channel Bandwidth 99%	2412.000	20.000000	PASS
Tx Spurious Emission	2412.000	20.000000	PASS
Minimum Emission Bandwidth 6 dB	2437.000	20.000000	PASS
Power Spectral Density	2437.000	20.000000	PASS
Occupied Channel Bandwidth 99%	2437.000	20.000000	PASS
Tx Spurious Emission	2437.000	20.000000	PASS
Minimum Emission Bandwidth 6 dB	2462.000	20.000000	PASS
Power Spectral Density	2462.000	20.000000	PASS
Occupied Channel Bandwidth 99%	2462.000	20.000000	PASS
Tx Spurious Emission	2462.000	20.000000	PASS

RF output power (2412 MHz; 24.000 dBm; 20 MHz)

Customized settings.

Result

DUT Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	DutyCycle (%)	Result
2412.000000	25.8	30.0	25.8	99.198	PASS

OSP PowerMeter settings

Setting	Instrument Value	Target Value
Measurement Time	1.000 s	1.000 s
Points	1000000	1000000
Time resolution	1.000 μ s	1.000 μ s

Minimum Emission Bandwidth 6 dB (2412 MHz; 24.000 dBm; 20 MHz)

Customized settings.

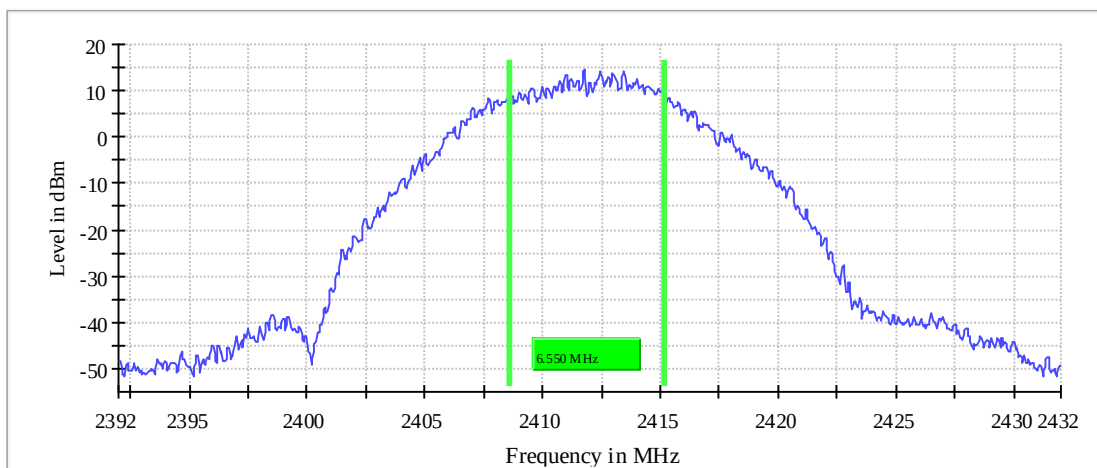
6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2412.000000	6.550000	0.500000	---	2408.625000	2415.175000

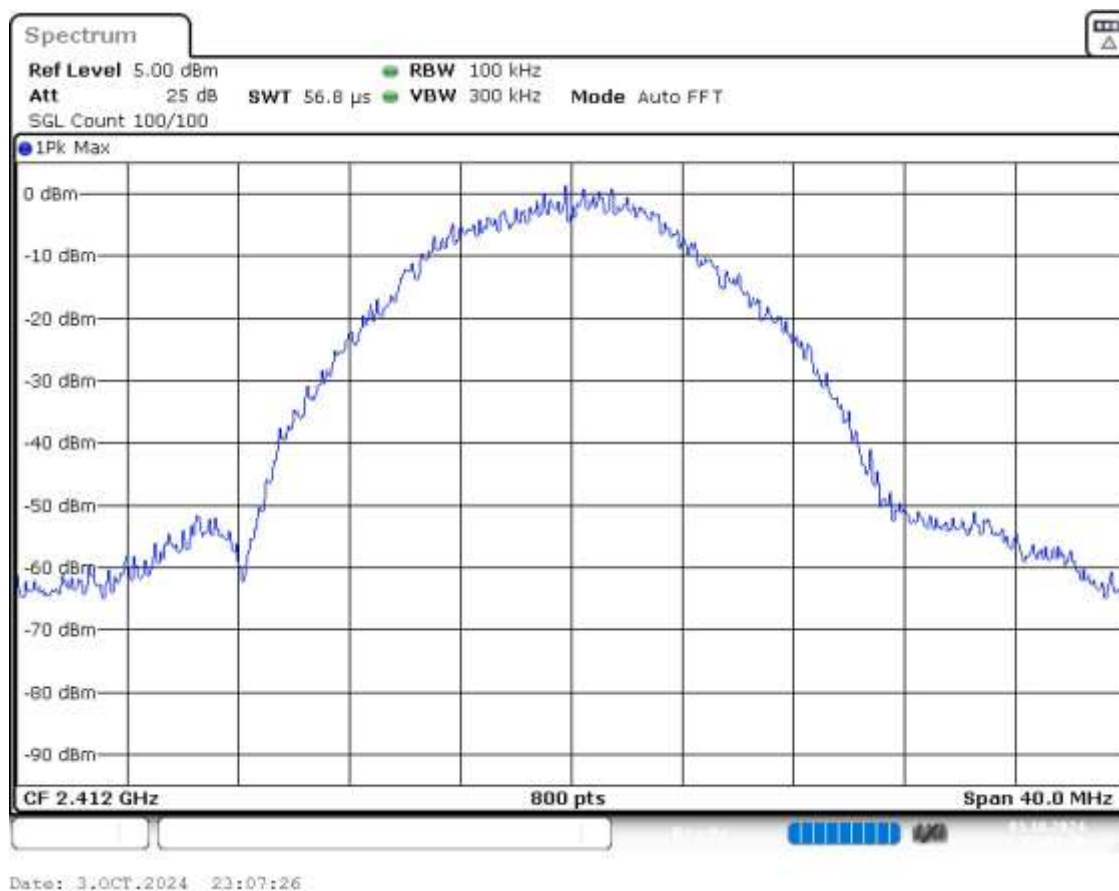
(continuation of the "6 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2412.000000	14.7	PASS

6 dB Bandwidth



Bandwidth



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.39200 GHz	2.39200 GHz
Stop Frequency	2.43200 GHz	2.43200 GHz
Span	40.000 MHz	40.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	~ 300.000 kHz
SweepPoints	800	~ 800
SweepTime	56.836 μ s	AUTO
Reference Level	5.000 dBm	5.000 dBm
Attenuation	25.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off

Power Spectral Density (2412 MHz; 24.000 dBm; 20 MHz)

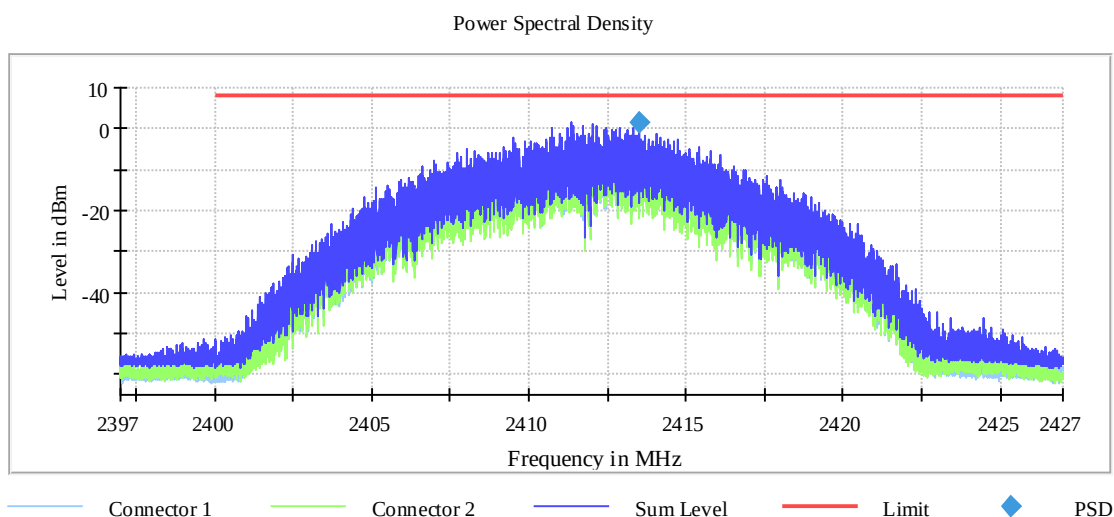
Customized settings.

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2412.000000	2413.485750	1.399	8.0	PASS

Ports

Port	State
1	used
2	used



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.39700 GHz	2.39700 GHz
Stop Frequency	2.42700 GHz	2.42700 GHz
Span	30.000 MHz	30.000 MHz
RBW	3.000 kHz	<= 3.000 kHz
VBW	10.000 kHz	>= 9.000 kHz
SweepPoints	20000	~ 20000
SweepTime	4.424 ms	AUTO
Reference Level	20.000 dBm	20.000 dBm
Attenuation	40.000 dB	AUTO
Detector	RMS	RMS
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Average Power	Average Power
SweepType	FFT	AUTO
Preamp	off	off

Occupied Channel Bandwidth 99% (2412 MHz; 24.000 dBm; 20 MHz)

Customized settings.

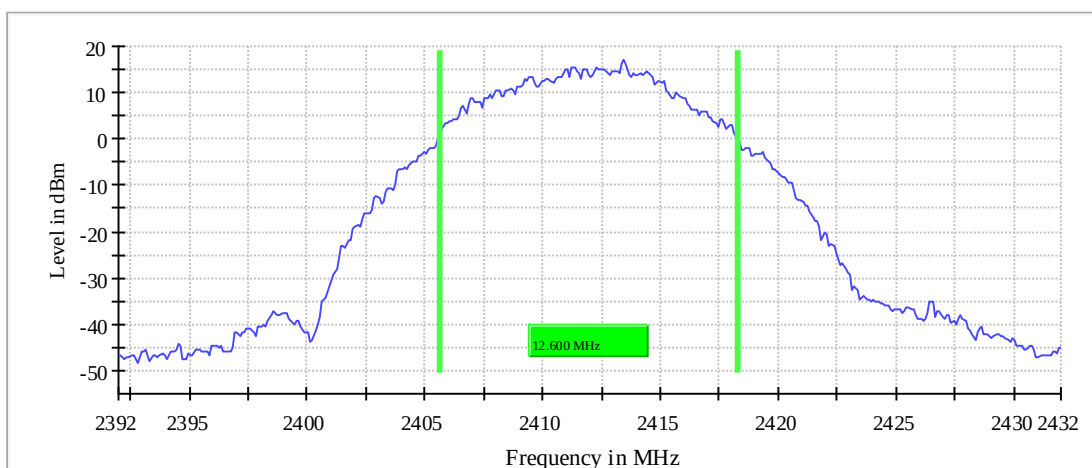
99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2412.000000	12.600000	---	---	2405.650000	2418.250000

(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Result
2412.000000	PASS

99 % Bandwidth



Bandwidth



Date: 3.OCT.2024 23:08:21

Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.39200 GHz	2.39200 GHz
Stop Frequency	2.43200 GHz	2.43200 GHz
Span	40.000 MHz	40.000 MHz
RBW	200.000 kHz	≥ 200.000 kHz
VBW	1.000 MHz	≥ 600.000 kHz
SweepPoints	400	~ 400
SweepTime	28.477 μ s	AUTO
Reference Level	5.000 dBm	5.000 dBm
Attenuation	25.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off

Tx Spurious Emission (2412 MHz; 24.000 dBm; 20 MHz)

Customized settings.

Result

DUT Frequency (MHz)	Result
2412.000000	PASS

Final measurements

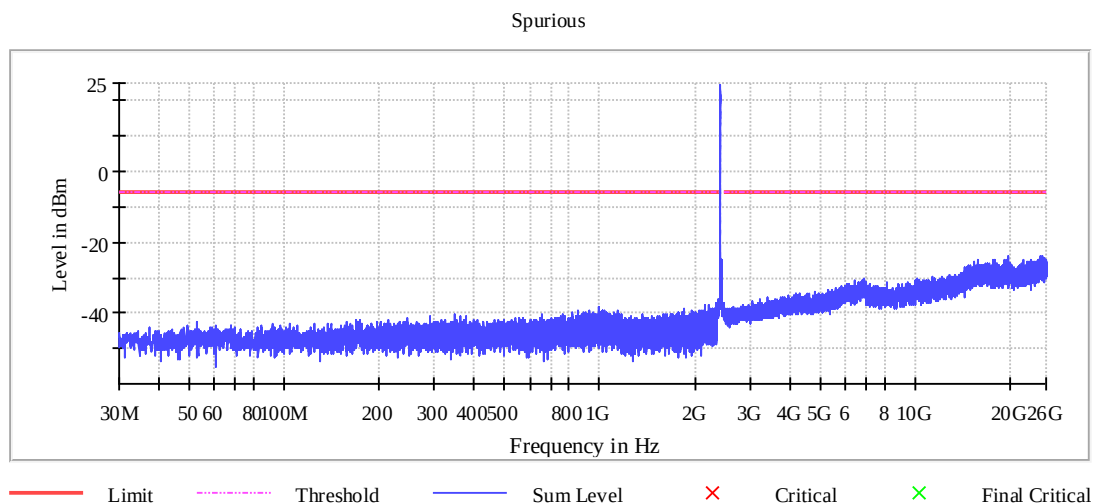
Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
---	---	---	---	---	---

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
25025.932916	-23.8	18.0	-5.8
25135.428198	-23.8	18.1	-5.8
25026.667784	-24.0	18.2	-5.8
19798.819248	-24.1	18.4	-5.8
25819.589989	-24.2	18.5	-5.8
25029.607254	-24.5	18.8	-5.8
25134.693330	-24.5	18.8	-5.8
25140.572271	-24.5	18.8	-5.8
25489.634410	-24.5	18.8	-5.8
25202.301155	-24.6	18.8	-5.8
25078.108520	-24.7	18.9	-5.8
25155.269624	-24.7	19.0	-5.8
25435.254203	-24.8	19.0	-5.8
23395.261578	-24.8	19.0	-5.8
24729.781249	-24.8	19.0	-5.8

Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
30.000000	2350.000000	1	1
2350.000000	2483.500000	2	1
2483.500000	26000.000000	1	1



Pre Measurement 1

Setting	Instrument Value	Target Value
RBW	100.000 kHz	≤ 100.000 kHz
VBW	300.000 kHz	≥ 300.000 kHz
SweepPoints	32001	~ 46400
SweepTime	32.100 ms	AUTO
Reference Level	20.000 dBm	20.000 dBm
Attenuation	40.000 dB	40.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	3	3
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off

Pre Measurement 2

Setting	Instrument Value	Target Value
RBW	100.000 kHz	≤ 100.000 kHz
VBW	300.000 kHz	≥ 300.000 kHz
SweepPoints	2670	~ 2670
SweepTime	151.563 μ s	AUTO
Reference Level	20.000 dBm	20.000 dBm
Attenuation	40.000 dB	40.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	300	300
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

Minimum Emission Bandwidth 6 dB (2437 MHz; 24.000 dBm; 20 MHz)

Customized settings.

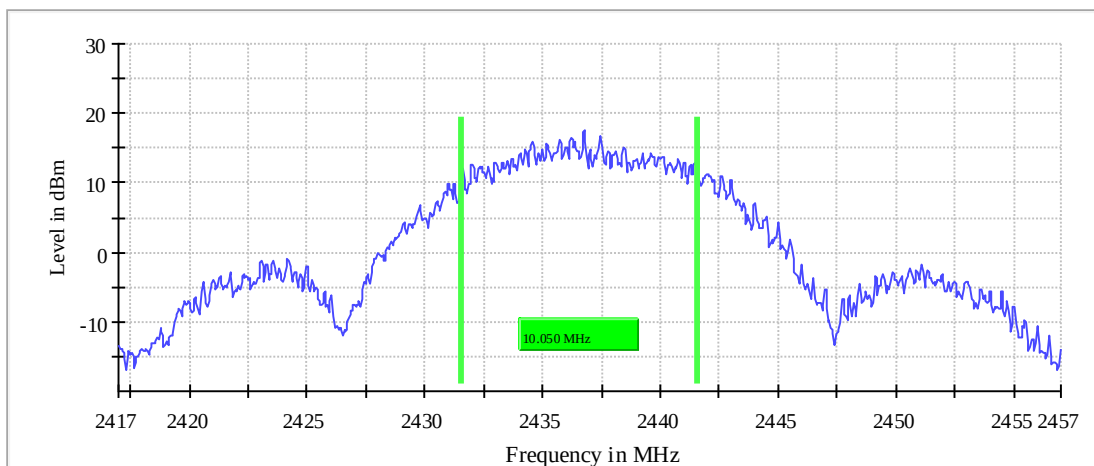
6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2437.000000	10.050000	0.500000	---	2431.525000	2441.575000

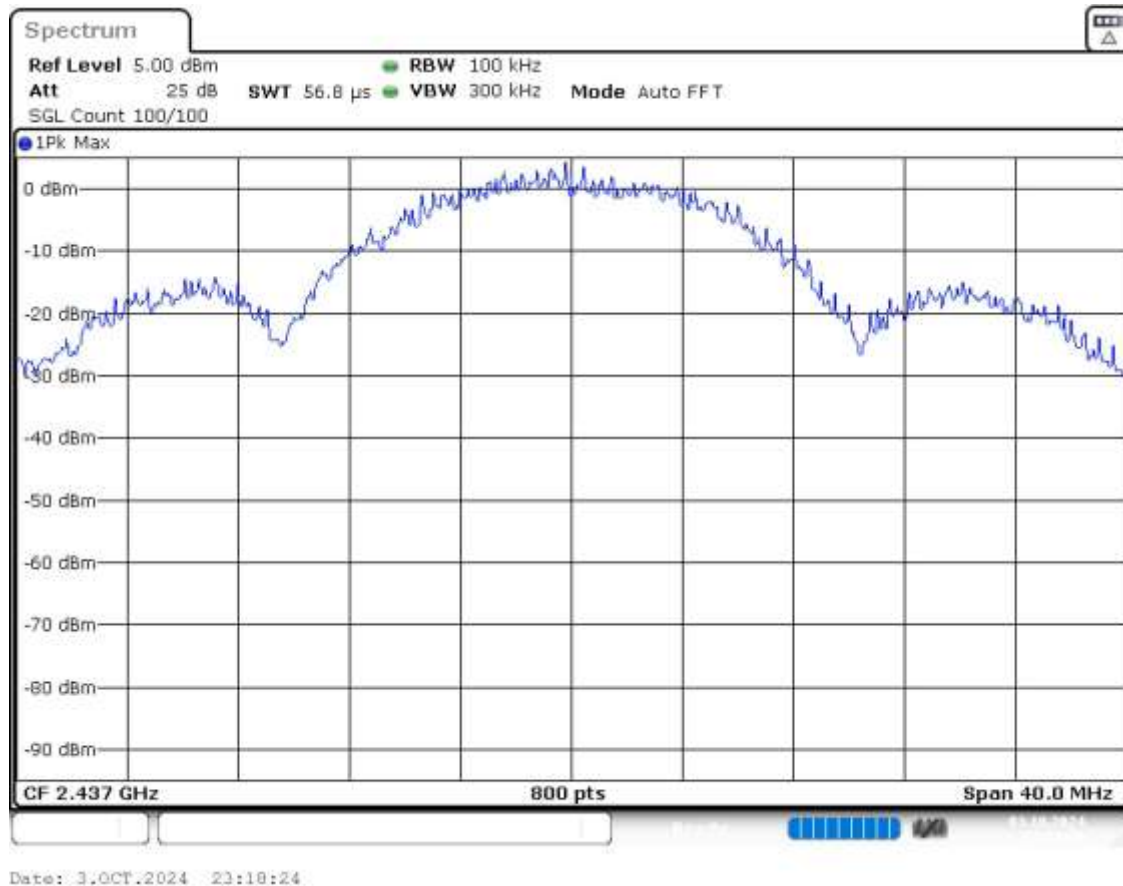
(continuation of the "6 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2437.000000	17.6	PASS

6 dB Bandwidth



Bandwidth



Power Spectral Density (2437 MHz; 24.000 dBm; 20 MHz)

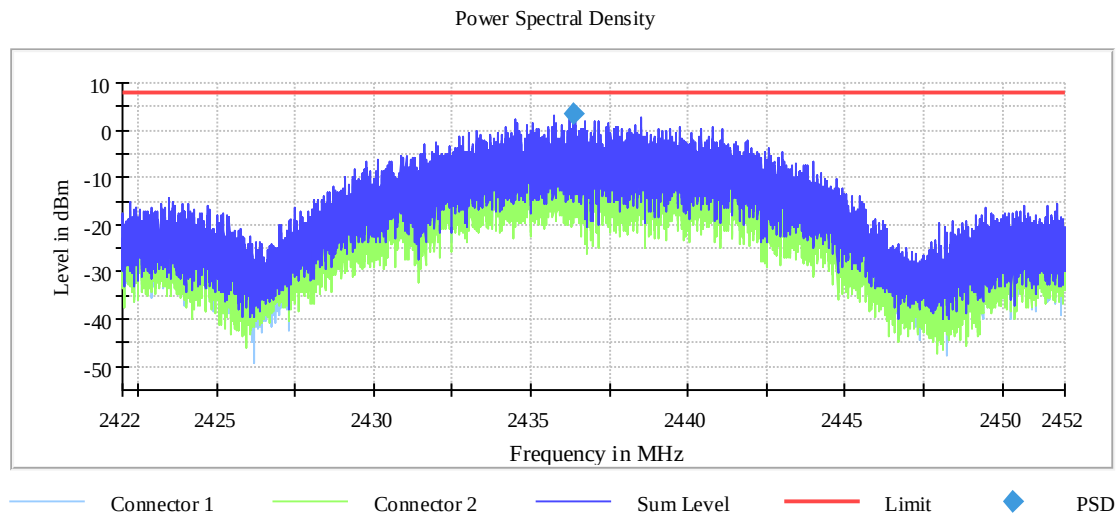
Customized settings.

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2437.000000	2436.330250	3.414	8.0	PASS

Ports

Port	State
1	used
2	used



Occupied Channel Bandwidth 99% (2437 MHz; 24.000 dBm; 20 MHz)

Customized settings.

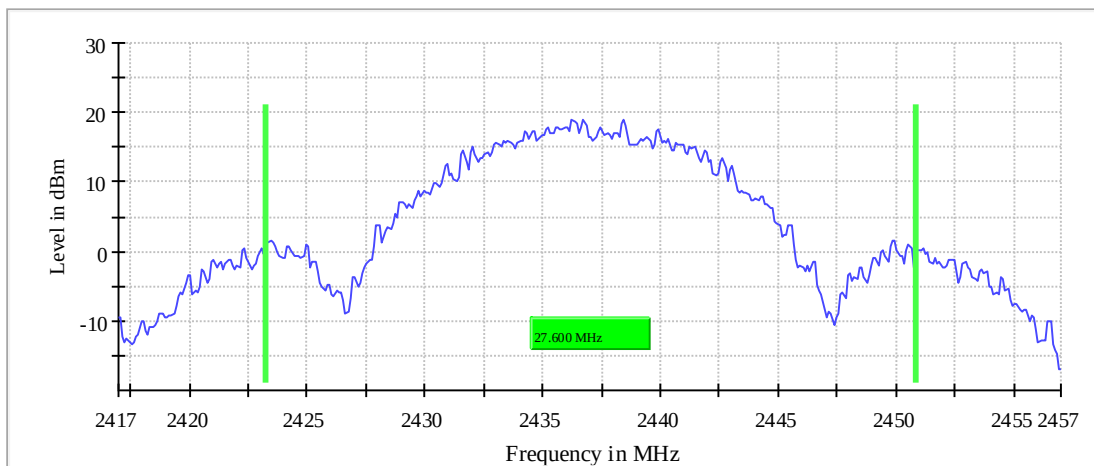
99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2437.000000	27.600000	---	---	2423.250000	2450.850000

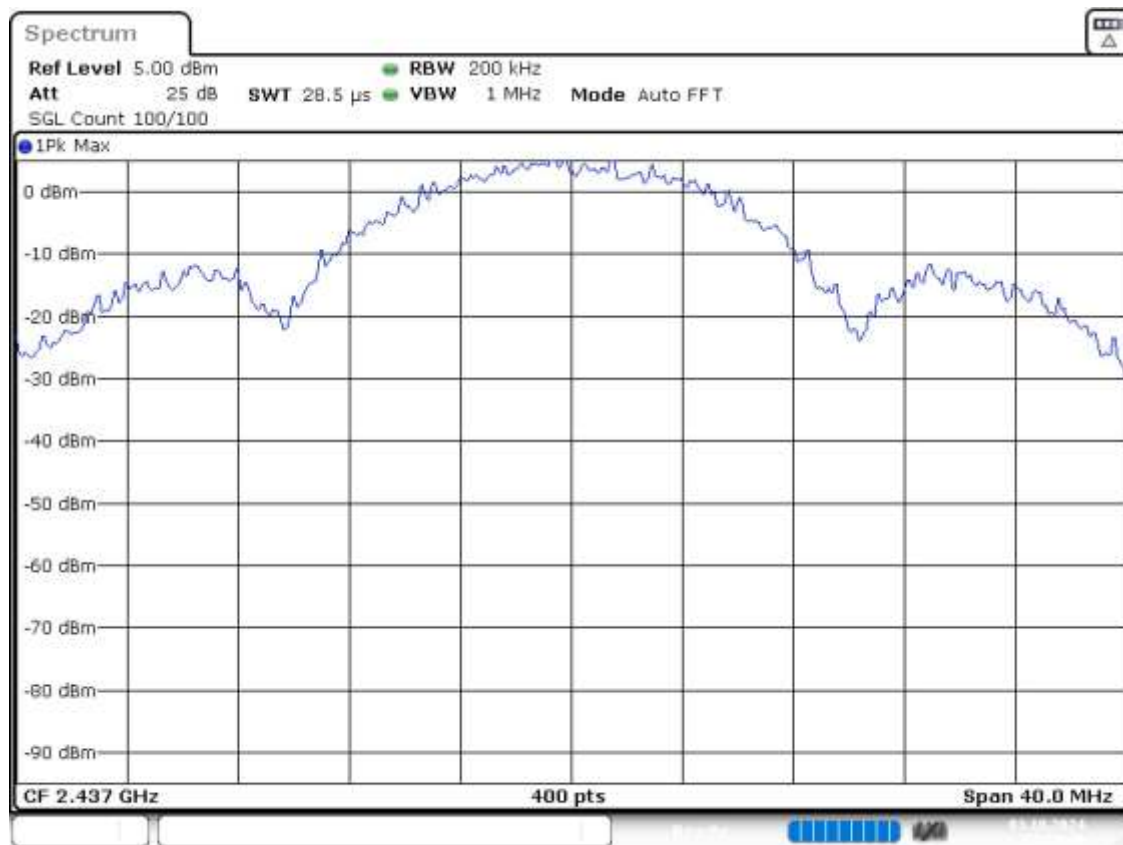
(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Result
2437.000000	PASS

99 % Bandwidth



Bandwidth



Date: 3.OCT.2024 23:19:47

Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.41700 GHz	2.41700 GHz
Stop Frequency	2.45700 GHz	2.45700 GHz
Span	40.000 MHz	40.000 MHz
RBW	200.000 kHz	>= 200.000 kHz
VBW	1.000 MHz	>= 600.000 kHz
SweepPoints	400	~ 400
SweepTime	28.477 μ s	AUTO
Reference Level	5.000 dBm	5.000 dBm
Attenuation	25.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

Tx Spurious Emission (2437 MHz; 24.000 dBm; 20 MHz)

Customized settings.

Result

DUT Frequency (MHz)	Result
2437.000000	PASS

Final measurements

Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
---	---	---	---	---	---

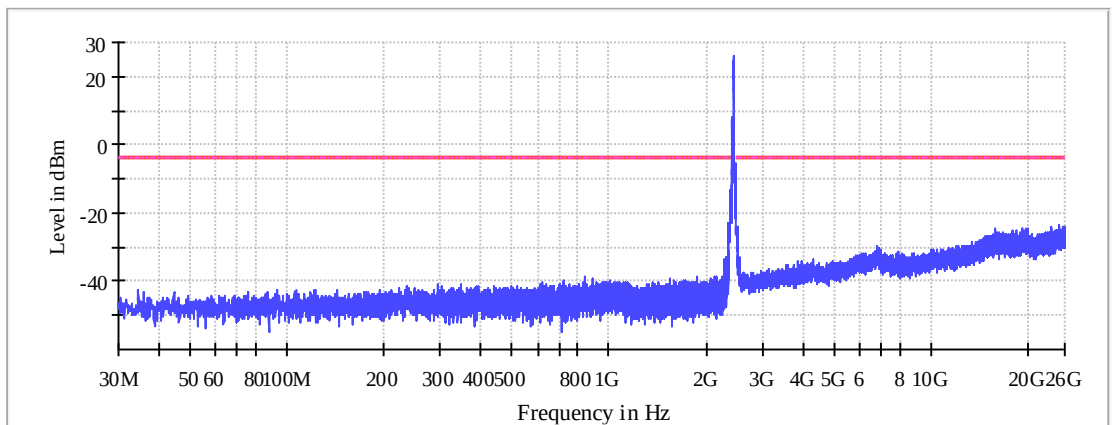
Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
2397.525000	-8.4	4.6	-3.8
2397.475000	-8.4	4.7	-3.8
2399.025000	-9.3	5.6	-3.8
2398.975000	-9.4	5.6	-3.8
2397.975000	-9.4	5.7	-3.8
2398.025000	-9.5	5.8	-3.8
2397.025000	-9.6	5.9	-3.8
2396.975000	-9.7	5.9	-3.8
2396.025000	-10.4	6.6	-3.8
2395.975000	-10.4	6.6	-3.8
2397.575000	-10.7	6.9	-3.8
2397.625000	-10.7	6.9	-3.8
2397.675000	-10.7	6.9	-3.8
2397.425000	-10.7	6.9	-3.8
2397.825000	-10.9	7.1	-3.8

Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
30.000000	2350.000000	1	1
2350.000000	2483.500000	2	1
2483.500000	26000.000000	1	1

Spurious



— Limit — Threshold — Sum Level × Critical × Final Critical

Minimum Emission Bandwidth 6 dB (2462 MHz; 24.000 dBm; 20 MHz)

Customized settings.

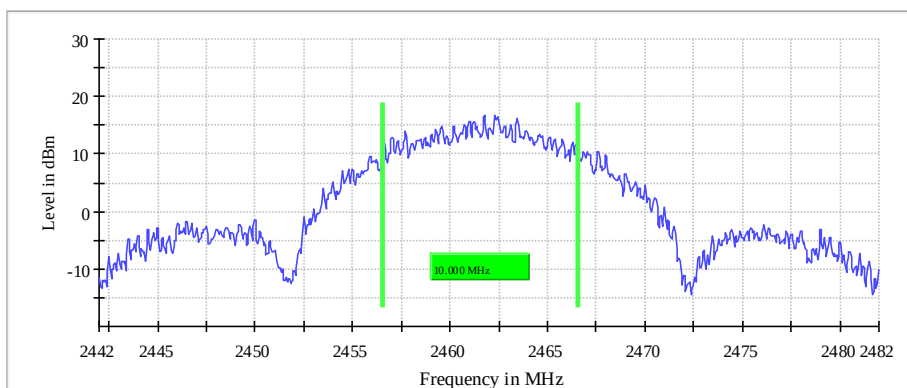
6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2462.000000	10.000000	0.500000	---	2456.525000	2466.525000

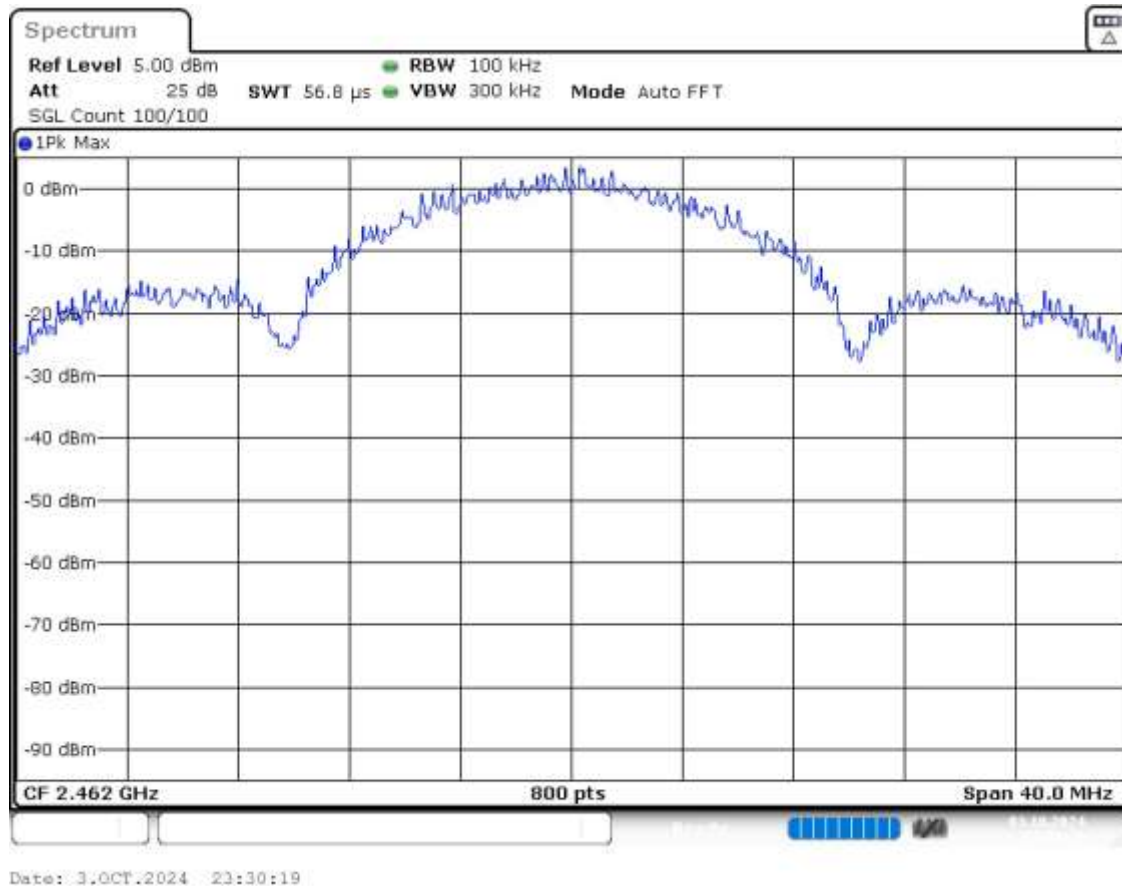
(continuation of the "6 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2462.000000	16.9	PASS

6 dB Bandwidth



Bandwidth



Power Spectral Density (2462 MHz; 24.000 dBm; 20 MHz)

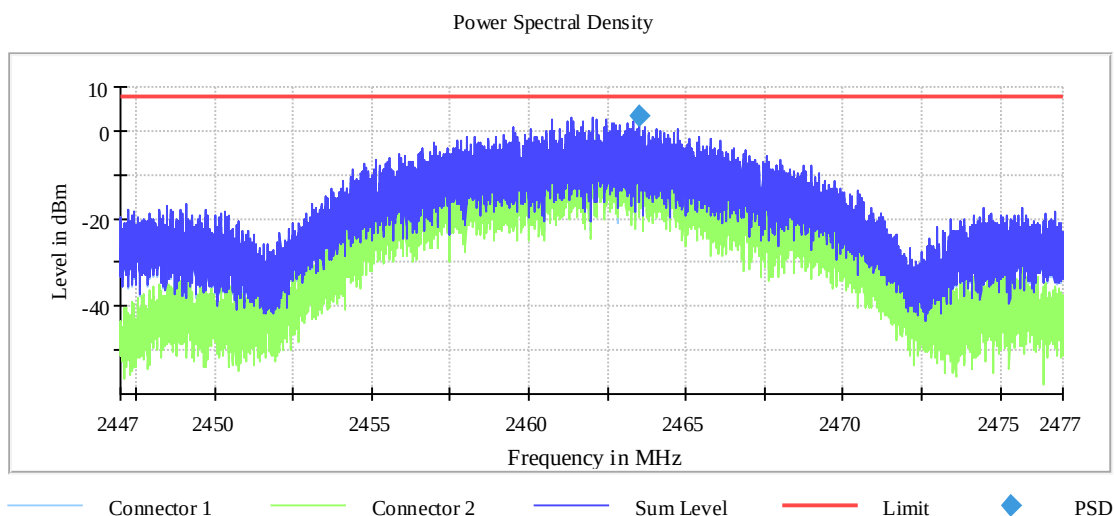
Customized settings.

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2462.000000	2463.487250	3.401	8.0	PASS

Ports

Port	State
1	used
2	used



Occupied Channel Bandwidth 99% (2462 MHz; 24.000 dBm; 20 MHz)

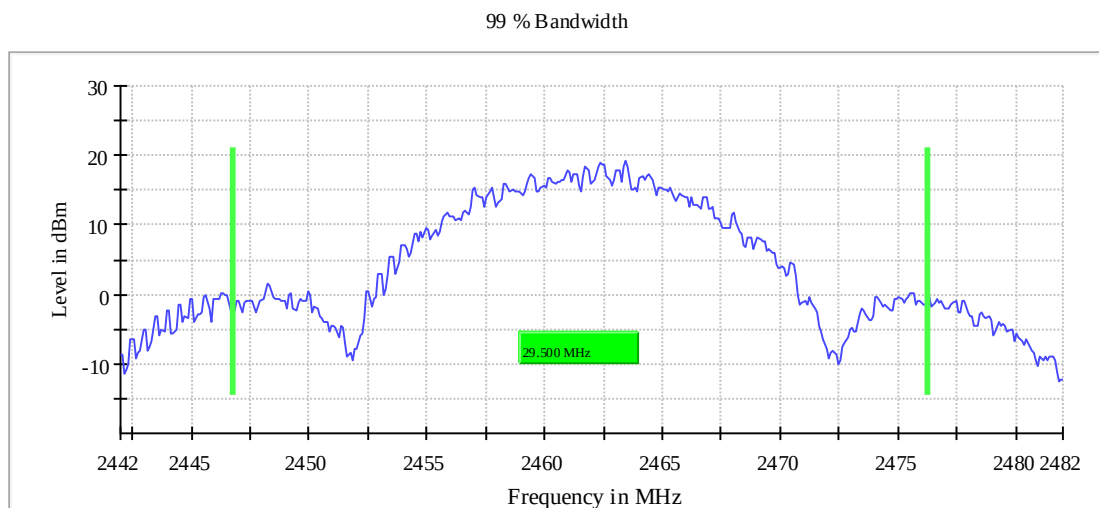
Customized settings.

99 % Bandwidth

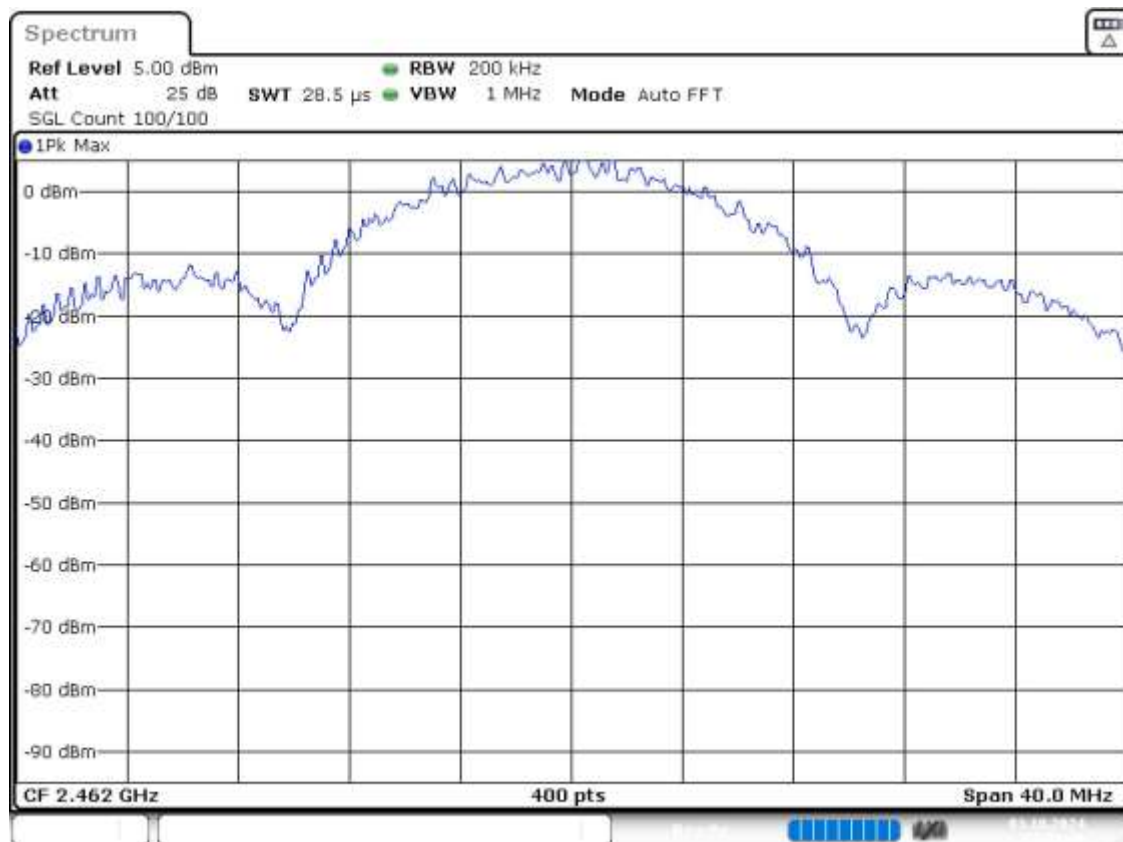
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2462.000000	29.500000	---	---	2446.750000	2476.250000

(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Result
2462.000000	PASS



Bandwidth



Date: 3.OCT.2024 23:31:44

Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.44200 GHz	2.44200 GHz
Stop Frequency	2.48200 GHz	2.48200 GHz
Span	40.000 MHz	40.000 MHz
RBW	200.000 kHz	≥ 200.000 kHz
VBW	1.000 MHz	≥ 600.000 kHz
SweepPoints	400	~ 400
SweepTime	28.477 μ s	AUTO
Reference Level	5.000 dBm	5.000 dBm
Attenuation	25.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

Tx Spurious Emission (2462 MHz; 24.000 dBm; 20 MHz)

Customized settings.

Result

DUT Frequency (MHz)	Result
2462.000000	PASS

Final measurements

Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
---	---	---	---	---	---

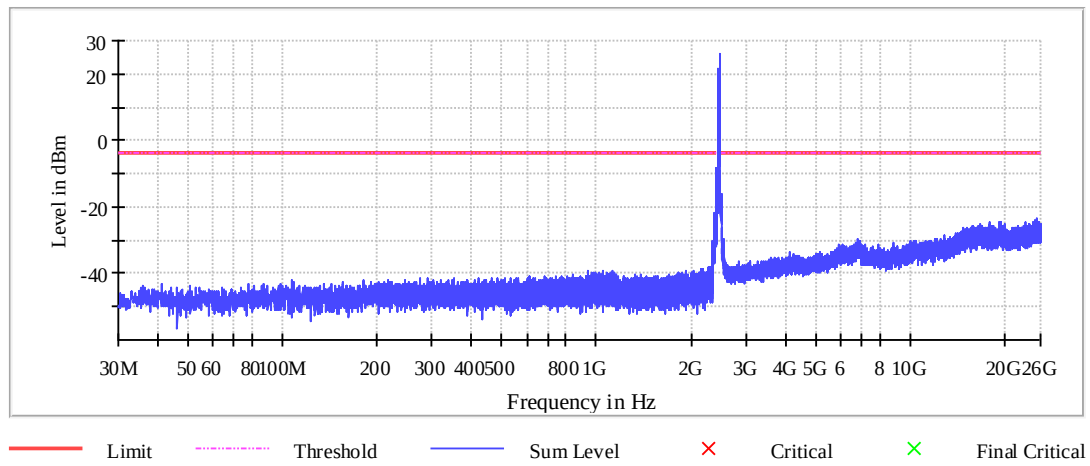
Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
2486.806904	-9.3	5.4	-3.8
2485.337169	-9.4	5.6	-3.8
2487.541772	-11.1	7.2	-3.8
2486.072037	-11.2	7.3	-3.8
2488.276640	-13.3	9.5	-3.8
2484.602301	-13.8	9.9	-3.8
2483.867434	-14.2	10.4	-3.8
2489.011507	-14.6	10.8	-3.8
2503.708861	-15.9	12.0	-3.8
2500.769390	-16.5	12.6	-3.8
2489.746375	-16.7	12.9	-3.8
2490.481243	-17.4	13.6	-3.8
2506.648331	-18.3	14.5	-3.8
2501.504258	-18.6	14.7	-3.8
2500.034522	-18.9	15.1	-3.8

Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
30.000000	2350.000000	1	1
2350.000000	2483.500000	2	1
2483.500000	26000.000000	1	1

Spurious



2.2 OFDM Mode

Summary

Test	Frequency (MHz)	Nominal Bandwidth (MHz)	Result
RF output power	2412.000	20.000000	PASS
Minimum Emission Bandwidth 6 dB	2412.000	20.000000	PASS
Power Spectral Density	2412.000	20.000000	PASS
Occupied Channel Bandwidth 99%	2412.000	20.000000	PASS
Tx Spurious Emission	2412.000	20.000000	PASS
Minimum Emission Bandwidth 6 dB	2437.000	20.000000	PASS
Power Spectral Density	2437.000	20.000000	PASS
Occupied Channel Bandwidth 99%	2437.000	20.000000	PASS
Tx Spurious Emission	2437.000	20.000000	PASS
Minimum Emission Bandwidth 6 dB	2462.000	20.000000	PASS
Power Spectral Density	2462.000	20.000000	PASS
Occupied Channel Bandwidth 99%	2462.000	20.000000	PASS
Tx Spurious Emission	2462.000	20.000000	PASS

RF output power (2412 MHz; 24.000 dBm; 20 MHz)

Customized settings.

Result

DUT Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	DutyCycle (%)	Result
2412.000000	20.1	30.0	20.1	97.145	PASS

OSP PowerMeter settings

Setting	Instrument Value	Target Value
Measurement Time	1.000 s	1.000 s
Points	1000000	1000000
Time resolution	1.000 μ s	1.000 μ s

Minimum Emission Bandwidth 6 dB (2412 MHz; 24.000 dBm; 20 MHz)

Customized settings.

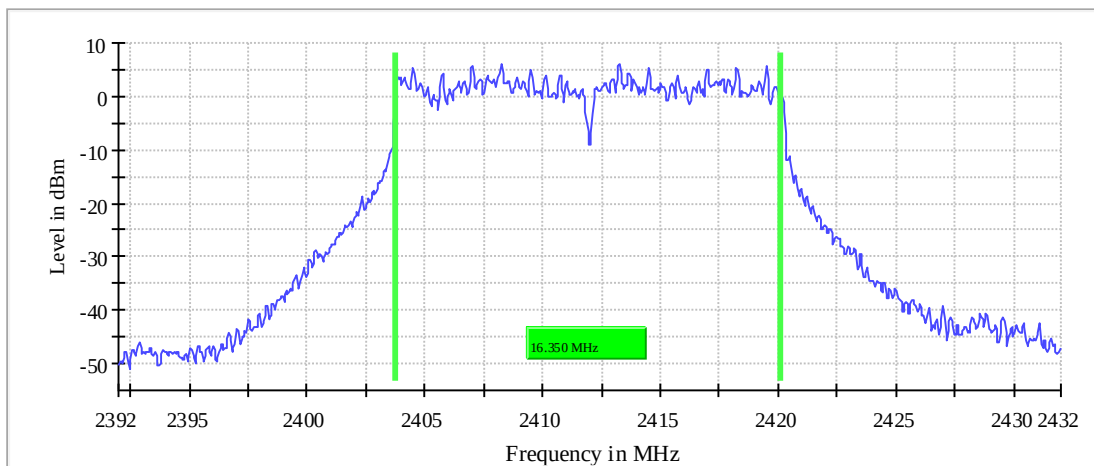
6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2412.000000	16.350000	0.500000	---	2403.725000	2420.075000

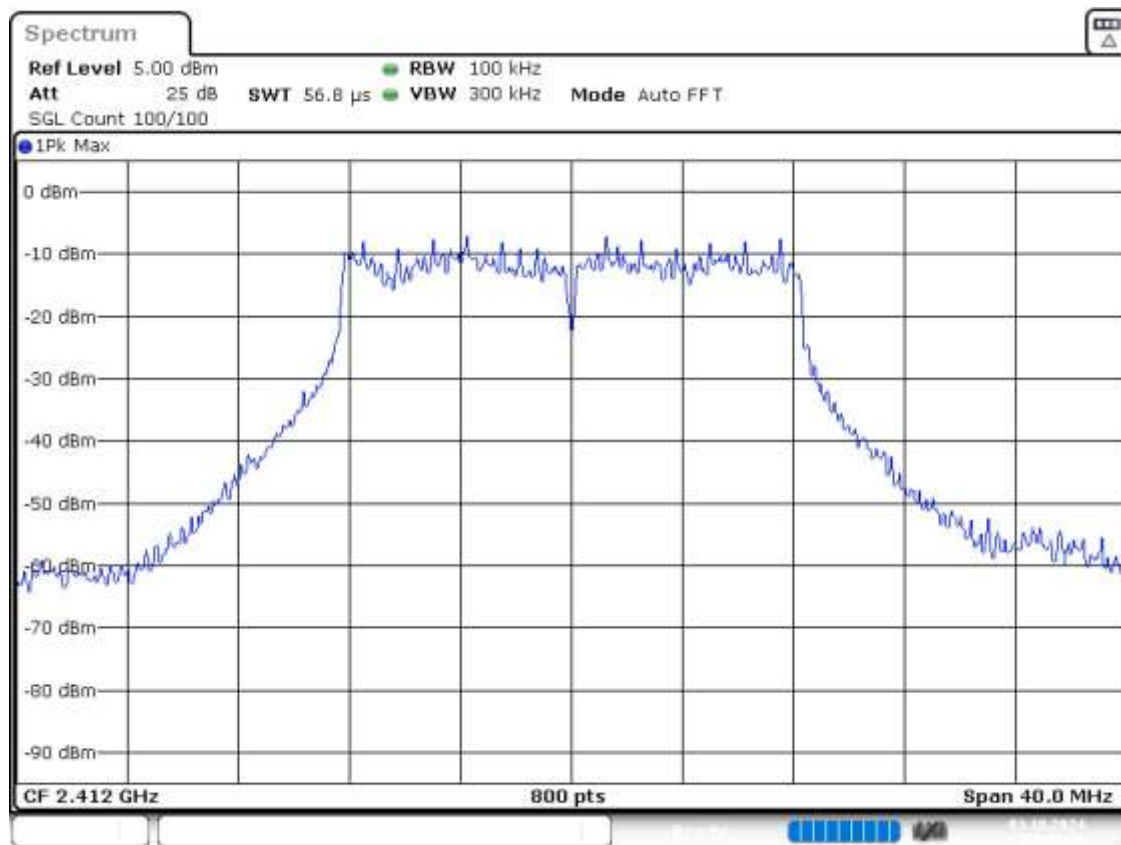
(continuation of the "6 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2412.000000	6.1	PASS

6 dB Bandwidth



Bandwidth



Date: 3.OCT.2024 23:49:29

Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.39200 GHz	2.39200 GHz
Stop Frequency	2.43200 GHz	2.43200 GHz
Span	40.000 MHz	40.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	~ 300.000 kHz
SweepPoints	800	~ 800
SweepTime	56.836 μ s	AUTO
Reference Level	5.000 dBm	5.000 dBm
Attenuation	25.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

Power Spectral Density (2412 MHz; 24.000 dBm; 20 MHz)

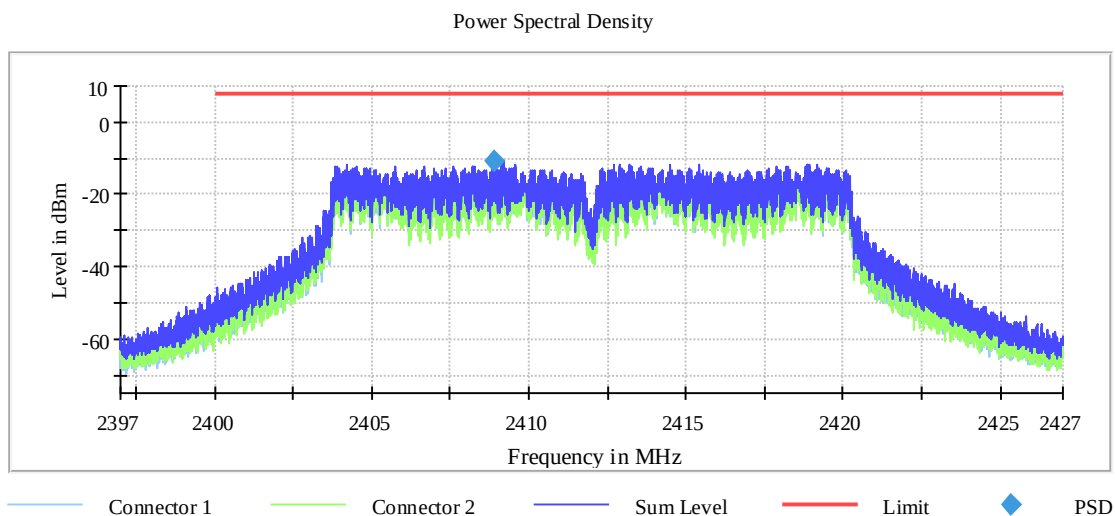
Customized settings.

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2412.000000	2408.897250	-10.542	8.0	PASS

Ports

Port	State
1	used
2	used



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.39700 GHz	2.39700 GHz
Stop Frequency	2.42700 GHz	2.42700 GHz
Span	30.000 MHz	30.000 MHz
RBW	3.000 kHz	<= 3.000 kHz
VBW	10.000 kHz	>= 9.000 kHz
SweepPoints	20000	~ 20000
SweepTime	4.424 ms	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	RMS	RMS
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Average Power	Average Power
SweepType	FFT	AUTO
Preamplifier	off	off

Occupied Channel Bandwidth 99% (2412 MHz; 24.000 dBm; 20 MHz)

Customized settings.

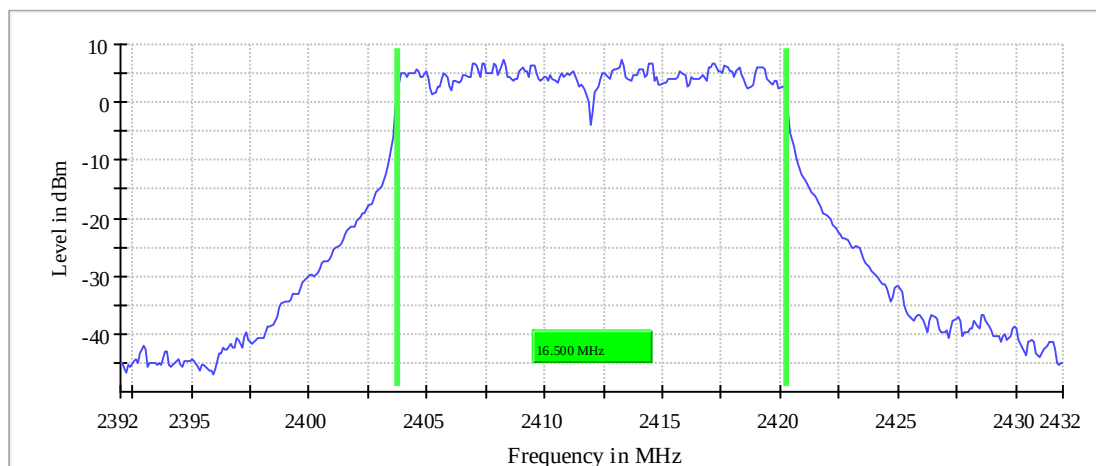
99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2412.000000	16.500000	---	---	2403.750000	2420.250000

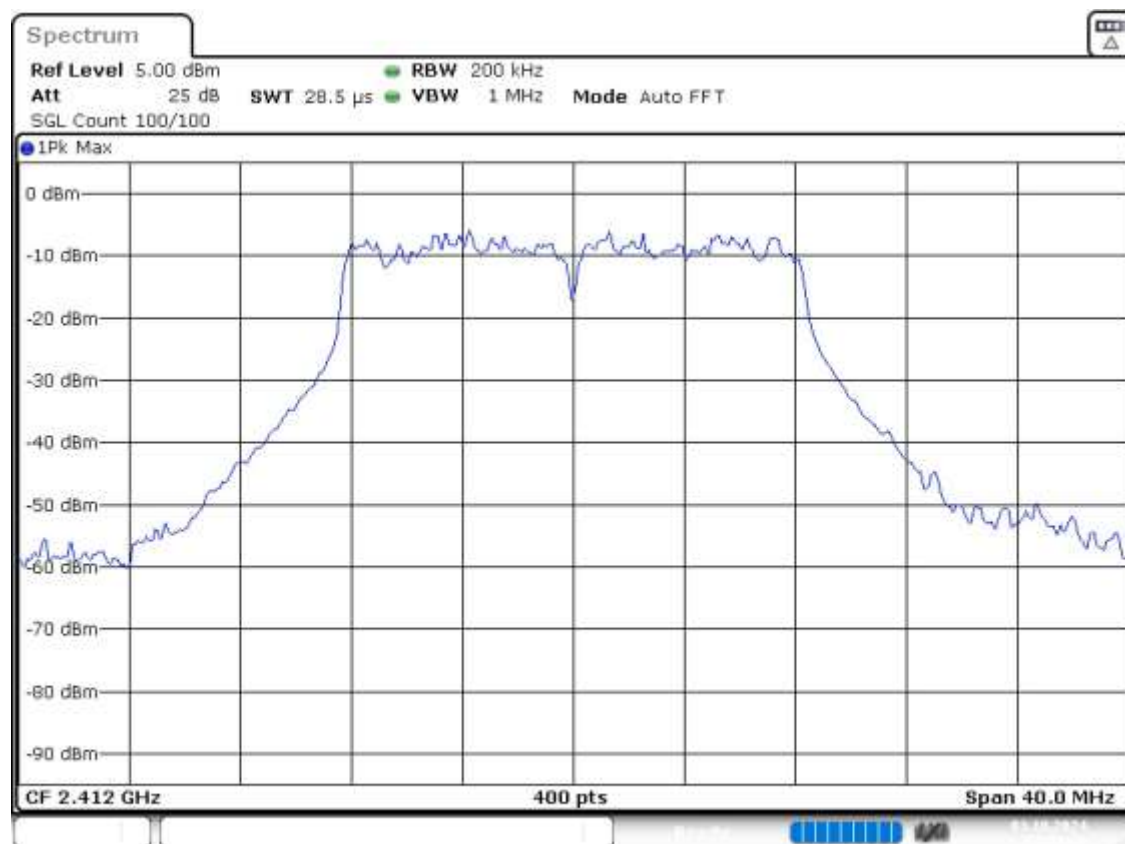
(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Result
2412.000000	PASS

99 % Bandwidth



Bandwidth



Date: 3.OCT.2024 23:50:23

Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.39200 GHz	2.39200 GHz
Stop Frequency	2.43200 GHz	2.43200 GHz
Span	40.000 MHz	40.000 MHz
RBW	200.000 kHz	>= 200.000 kHz
VBW	1.000 MHz	>= 600.000 kHz
SweepPoints	400	~ 400
SweepTime	28.477 μ s	AUTO
Reference Level	5.000 dBm	5.000 dBm
Attenuation	25.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

Tx Spurious Emission (2412 MHz; 24.000 dBm; 20 MHz)

Customized settings.

Result

DUT Frequency (MHz)	Result
2412.000000	PASS

Final measurements

Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
---	---	---	---	---	---

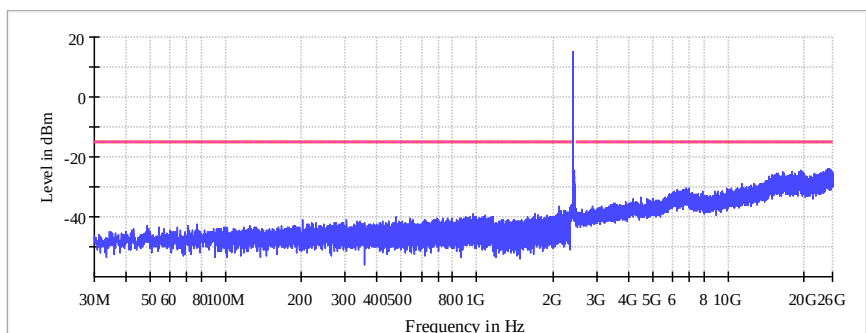
re Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
2399.875000	-22.9	8.0	-14.9
2399.825000	-23.9	8.9	-14.9
2399.525000	-23.9	9.0	-14.9
2399.925000	-24.0	9.1	-14.9
2399.775000	-24.1	9.2	-14.9
25062.676299	-24.1	9.2	-14.9
2399.575000	-24.1	9.2	-14.9
25195.687346	-24.1	9.2	-14.9
25136.163065	-24.1	9.2	-14.9
25267.704376	-24.3	9.3	-14.9
24729.046381	-24.3	9.4	-14.9
25701.276296	-24.5	9.5	-14.9
25053.857887	-24.6	9.6	-14.9
24717.288499	-24.6	9.7	-14.9
25719.647988	-24.7	9.8	-14.9

Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
30.000000	2350.000000	1	1
2350.000000	2483.500000	2	1
2483.500000	26000.000000	1	1

Spurious



— Limit — Threshold — Sum Level × Critical × Final Critical

Pre Measurement 1

Setting	Instrument Value	Target Value
RBW	100.000 kHz	<= 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	32001	~ 46400
SweepTime	32.100 ms	AUTO
Reference Level	20.000 dBm	20.000 dBm
Attenuation	40.000 dB	40.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	3	3
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off

Pre Measurement 2

Setting	Instrument Value	Target Value
RBW	100.000 kHz	<= 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	2670	~ 2670
SweepTime	151.563 μ s	AUTO
Reference Level	20.000 dBm	20.000 dBm
Attenuation	40.000 dB	40.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	300	300
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

Minimum Emission Bandwidth 6 dB (2437 MHz; 24.000 dBm; 20 MHz)

Customized settings.

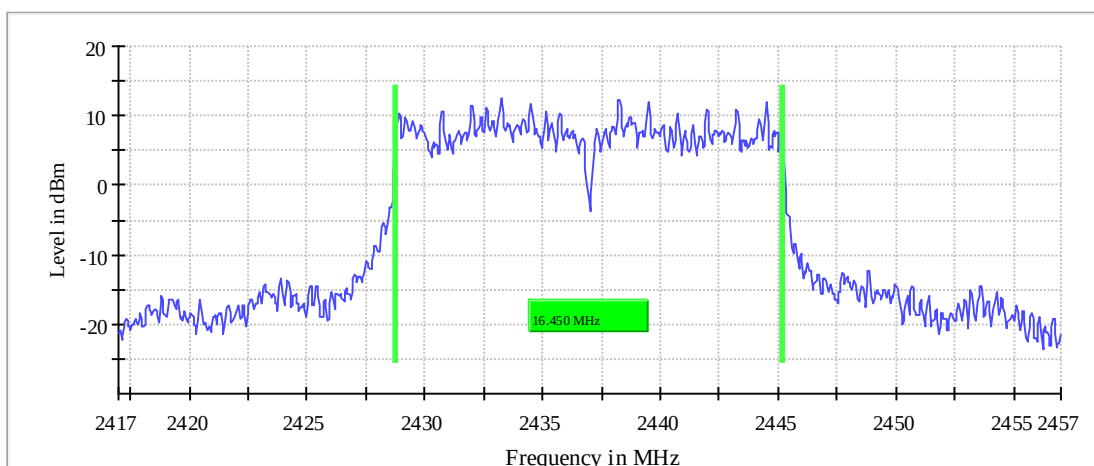
6 dB Bandwidth

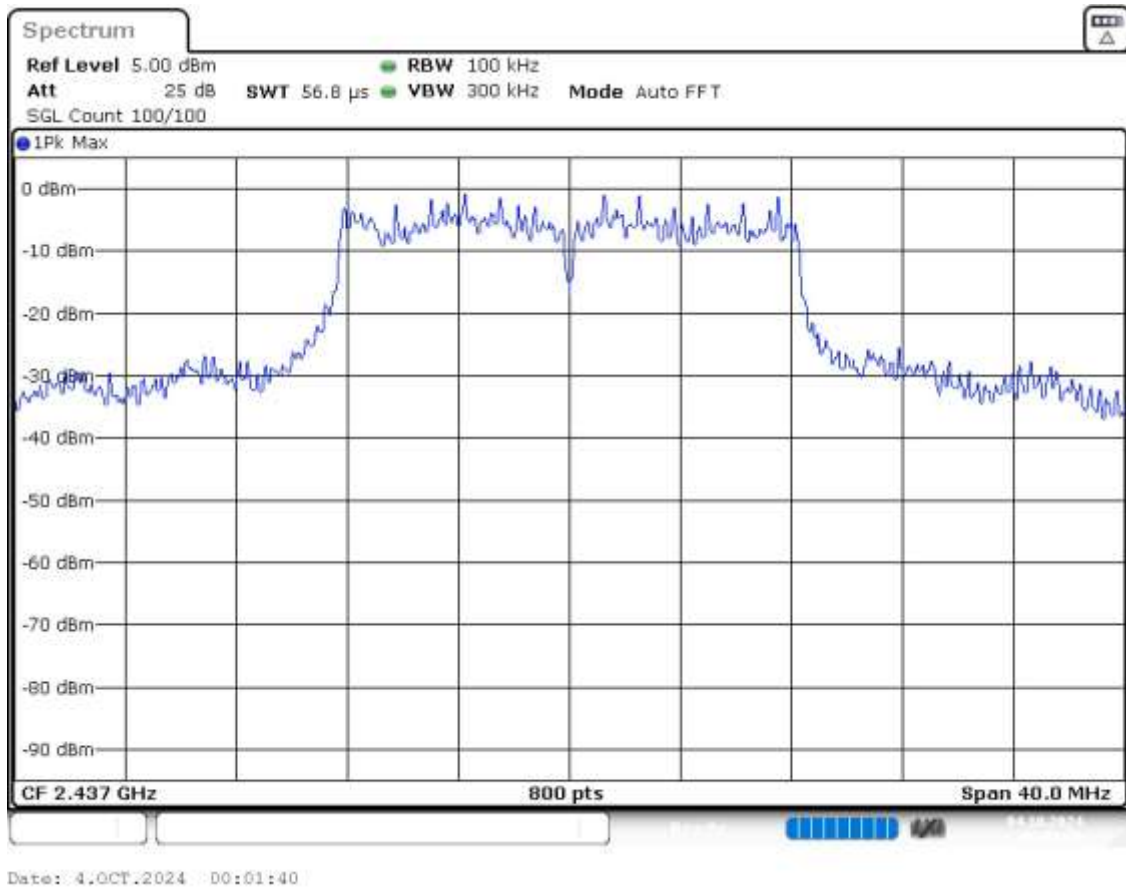
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2437.000000	16.450000	0.500000	---	2428.725000	2445.175000

(continuation of the "6 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2437.000000	12.4	PASS

6 dB Bandwidth





Bandwidth

Power Spectral Density (2437 MHz; 24.000 dBm; 20 MHz)

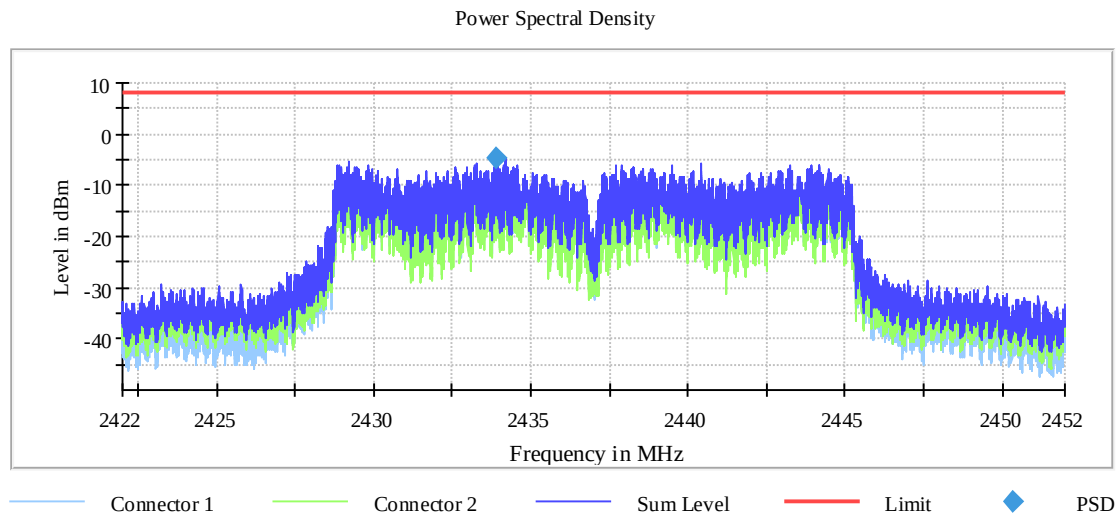
Customized settings.

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2437.000000	2433.895750	-4.455	8.0	PASS

Ports

Port	State
1	used
2	used



Occupied Channel Bandwidth 99% (2437 MHz; 24.000 dBm; 20 MHz)

Customized settings.

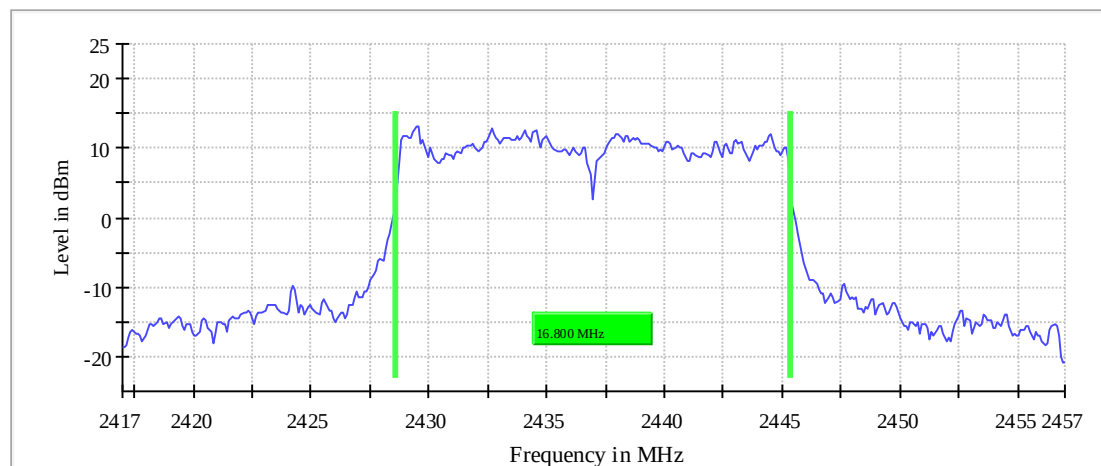
99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2437.000000	16.800000	---	---	2428.550000	2445.350000

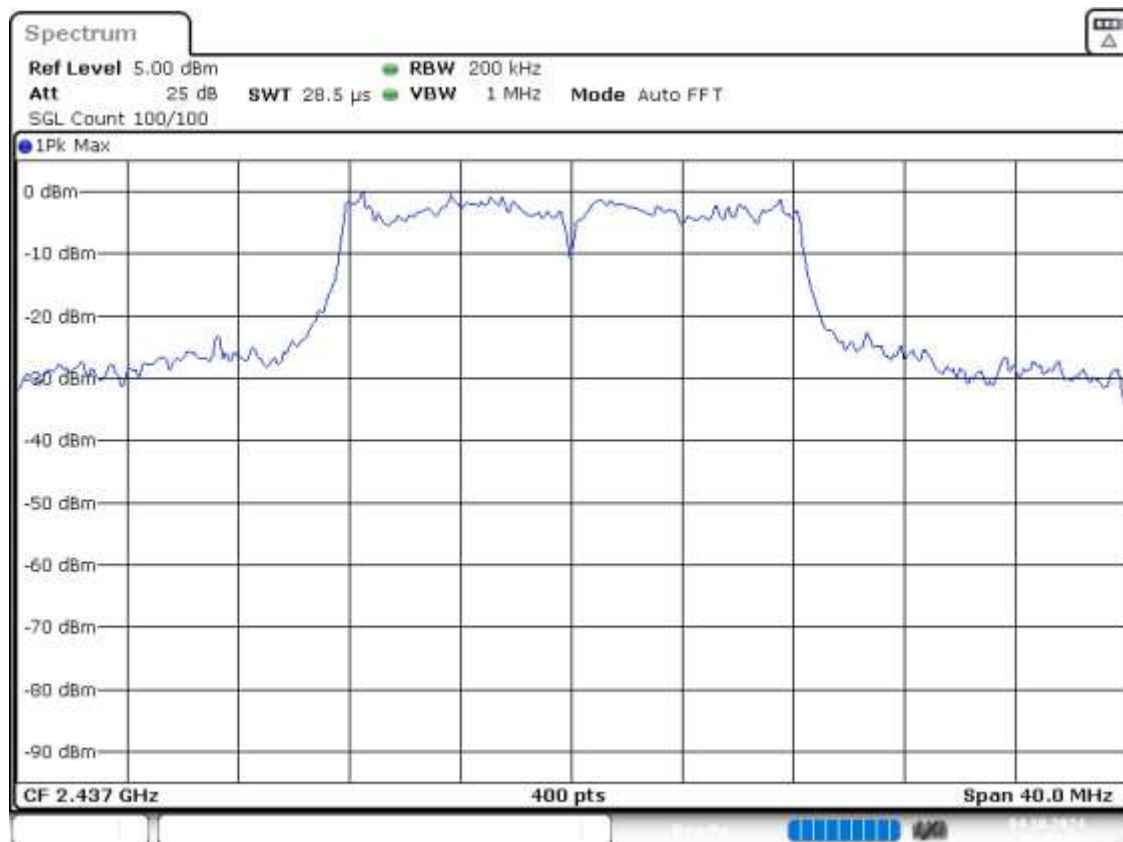
(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Result
2437.000000	PASS

99 % Bandwidth



Bandwidth



Date: 4.OCT.2024 00:03:03

Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.41700 GHz	2.41700 GHz
Stop Frequency	2.45700 GHz	2.45700 GHz
Span	40.000 MHz	40.000 MHz
RBW	200.000 kHz	≥ 200.000 kHz
VBW	1.000 MHz	≥ 600.000 kHz
SweepPoints	400	~ 400
Sweeptime	28.477 μ s	AUTO
Reference Level	5.000 dBm	5.000 dBm
Attenuation	25.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

Tx Spurious Emission (2437 MHz; 24.000 dBm; 20 MHz)

Customized settings.

Result

DUT Frequency (MHz)	Result
2437.000000	PASS

Final measurements

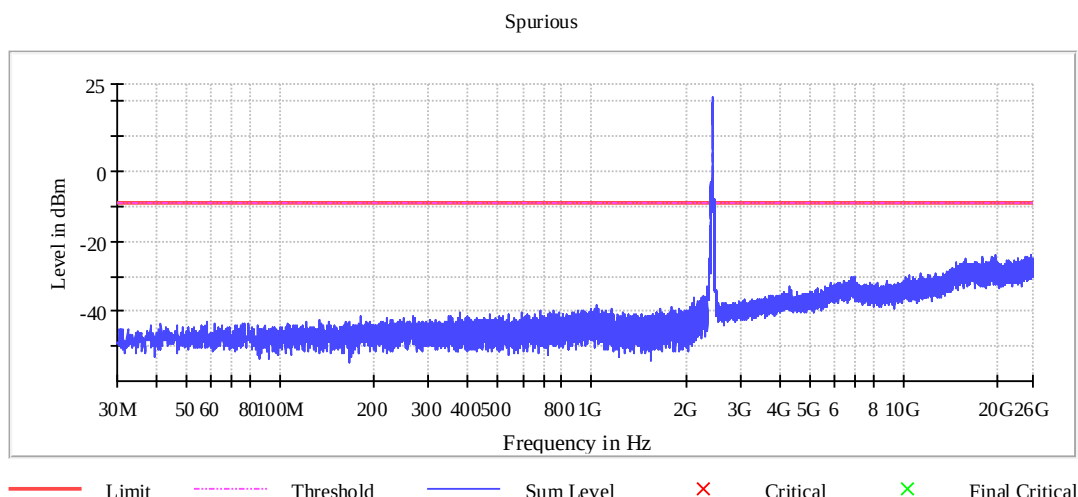
Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
---	---	---	---	---	---

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
2399.175000	-22.0	13.2	-8.9
2399.775000	-22.3	13.4	-8.9
2399.725000	-22.3	13.4	-8.9
2399.225000	-22.6	13.7	-8.9
2397.625000	-22.6	13.7	-8.9
2398.875000	-22.6	13.7	-8.9
2398.525000	-22.7	13.8	-8.9
2399.125000	-22.8	13.9	-8.9
2398.825000	-22.8	14.0	-8.9
2398.925000	-22.9	14.1	-8.9
2397.675000	-23.0	14.2	-8.9
2397.575000	-23.1	14.2	-8.9
2397.925000	-23.2	14.3	-8.9
2398.575000	-23.2	14.4	-8.9
2399.575000	-23.4	14.6	-8.9

Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
30.000000	2350.000000	1	1
2350.000000	2483.500000	2	1
2483.500000	26000.000000	1	1



Minimum Emission Bandwidth 6 dB (2462 MHz; 24.000 dBm; 20 MHz)

Customized settings.

6 dB Bandwidth

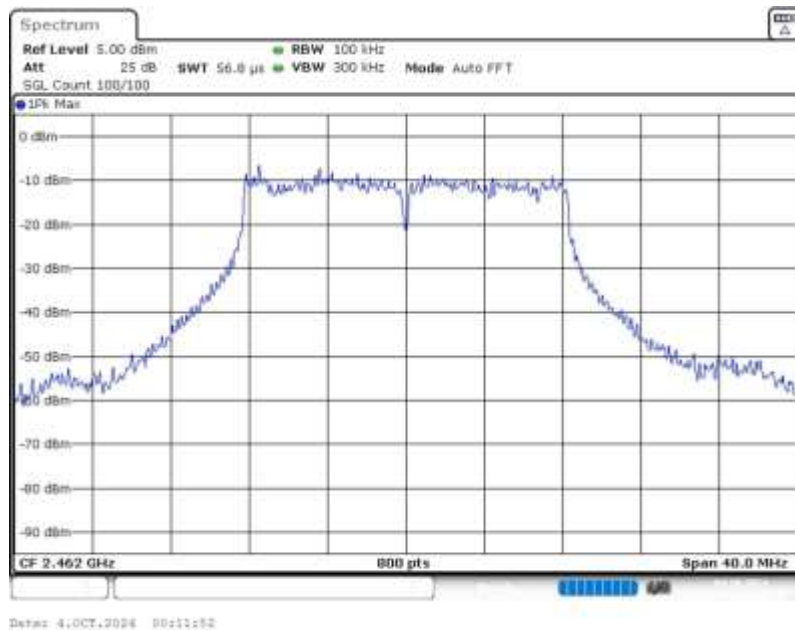
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2462.000000	16.500000	0.500000	---	2453.725000	2470.225000

(continuation of the "6 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2462.000000	6.7	PASS



Bandwidth



Power Spectral Density (2462 MHz; 24.000 dBm; 20 MHz)

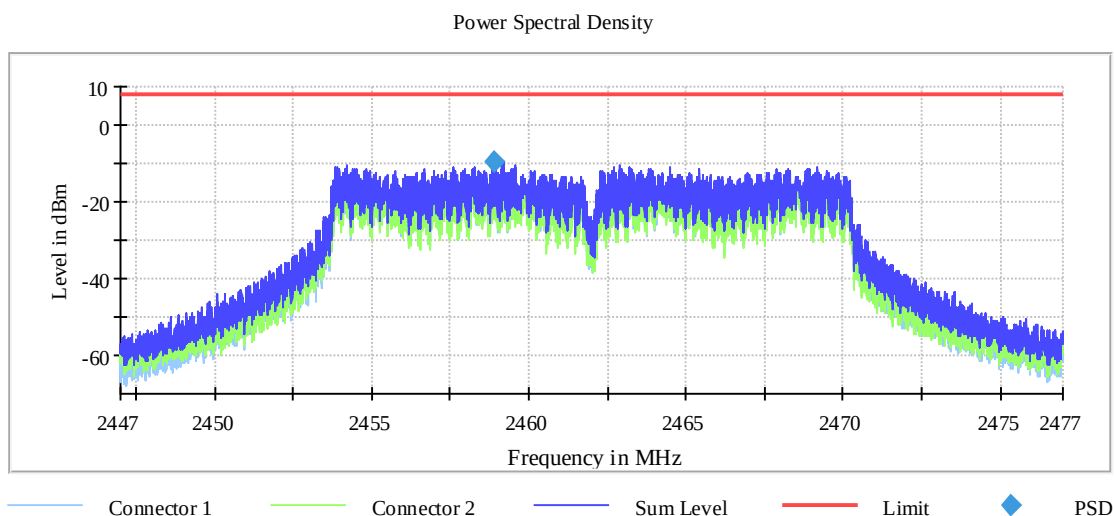
Customized settings.

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2462.000000	2458.919750	-9.538	8.0	PASS

Ports

Port	State
1	used
2	used



Occupied Channel Bandwidth 99% (2462 MHz; 24.000 dBm; 20 MHz)

Customized settings.

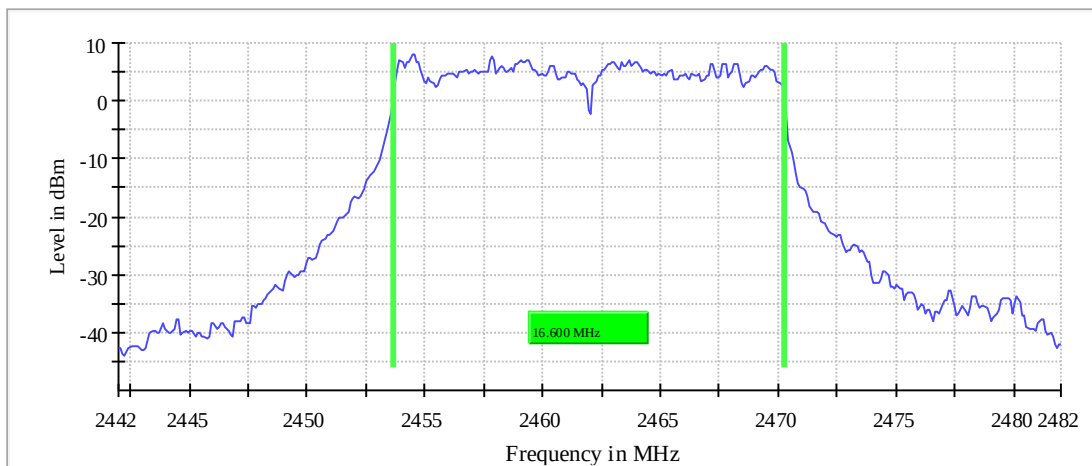
99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2462.000000	16.600000	---	---	2453.650000	2470.250000

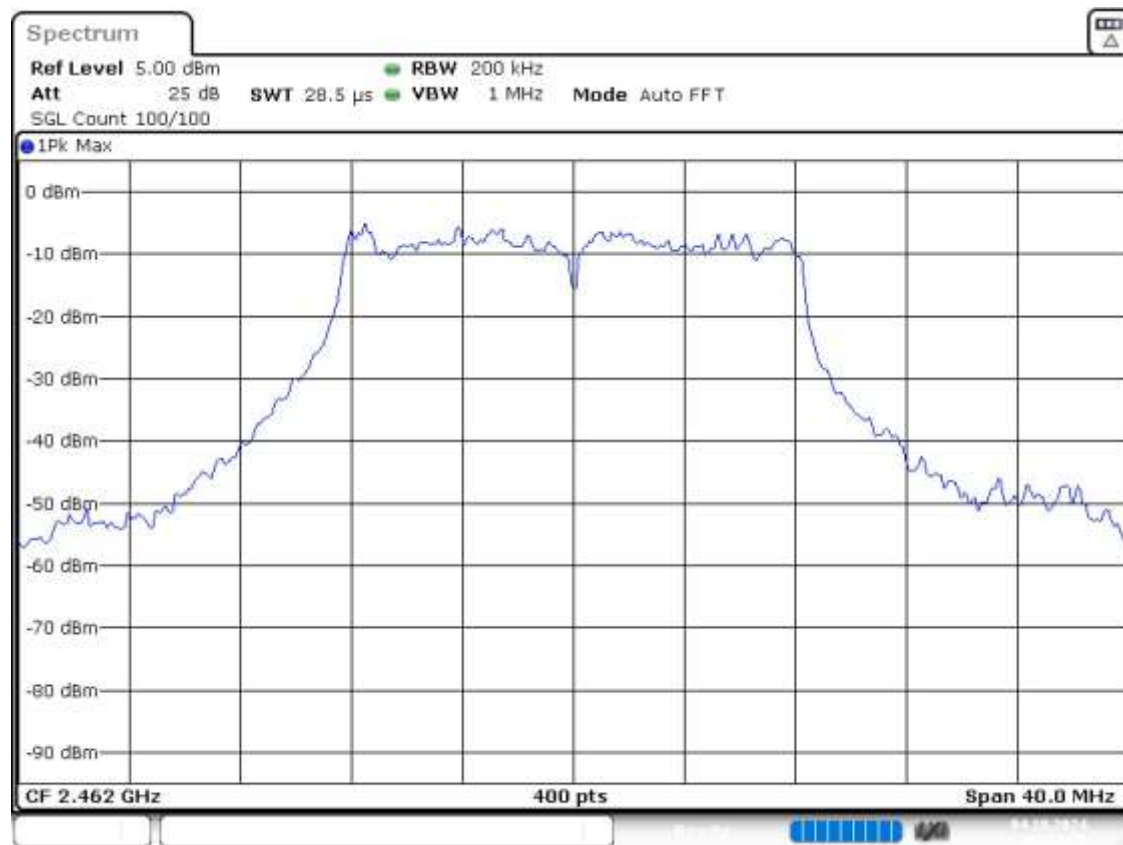
(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Result
2462.000000	PASS

99 % Bandwidth



Bandwidth



Date: 4.OCT.2024 D0:13:15

Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.44200 GHz	2.44200 GHz
Stop Frequency	2.48200 GHz	2.48200 GHz
Span	40.000 MHz	40.000 MHz
RBW	200.000 kHz	>= 200.000 kHz
VBW	1.000 MHz	>= 600.000 kHz
SweepPoints	400	~ 400
Sweptime	28.477 μ s	AUTO
Reference Level	5.000 dBm	5.000 dBm
Attenuation	25.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off

Tx Spurious Emission (2462 MHz; 24.000 dBm; 20 MHz)

Customized settings.

Result

DUT Frequency (MHz)	Result
2462.000000	PASS

Final measurements

Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
---	---	---	---	---	---

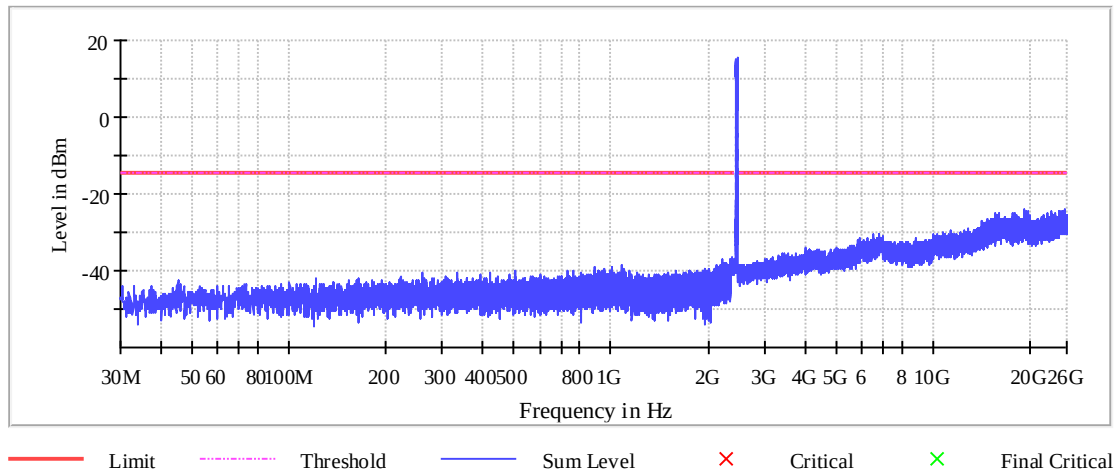
Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
25493.308748	-23.8	9.4	-14.4
19092.611426	-24.0	9.6	-14.4
25740.224282	-24.3	9.9	-14.4
25125.140050	-24.4	10.0	-14.4
19410.074255	-24.4	10.0	-14.4
24754.766749	-24.4	10.0	-14.4
25312.531304	-24.4	10.0	-14.4
23350.434650	-24.5	10.1	-14.4
25029.607254	-24.6	10.2	-14.4
24668.787233	-24.6	10.2	-14.4
19814.251469	-24.7	10.3	-14.4
19102.164706	-24.8	10.3	-14.4
19823.069881	-24.8	10.3	-14.4
25056.062490	-24.8	10.4	-14.4
25010.500695	-24.8	10.4	-14.4

Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
30.000000	2350.000000	1	1
2350.000000	2483.500000	2	1
2483.500000	26000.000000	1	1

Spurious



2.3 HT Mode

Summary

Test	Frequency (MHz)	Nominal Bandwidth (MHz)	Result
RF output power	2412.000	20.000000	PASS
Minimum Emission Bandwidth 6 dB	2412.000	20.000000	PASS
Power Spectral Density	2412.000	20.000000	PASS
Occupied Channel Bandwidth 99%	2412.000	20.000000	PASS
Tx Spurious Emission	2412.000	20.000000	PASS
Minimum Emission Bandwidth 6 dB	2437.000	20.000000	PASS
Power Spectral Density	2437.000	20.000000	PASS
Occupied Channel Bandwidth 99%	2437.000	20.000000	PASS
Tx Spurious Emission	2437.000	20.000000	PASS
Minimum Emission Bandwidth 6 dB	2462.000	20.000000	PASS
Power Spectral Density	2462.000	20.000000	PASS
Occupied Channel Bandwidth 99%	2462.000	20.000000	PASS
Tx Spurious Emission	2462.000	20.000000	PASS
Minimum Emission Bandwidth 6 dB	2422.000	40.000000	PASS
Power Spectral Density	2422.000	40.000000	PASS
Occupied Channel Bandwidth 99%	2422.000	40.000000	PASS
Tx Spurious Emission	2422.000	40.000000	PASS
Minimum Emission Bandwidth 6 dB	2437.000	40.000000	PASS
Power Spectral Density	2437.000	40.000000	PASS
Occupied Channel Bandwidth 99%	2437.000	40.000000	PASS
Tx Spurious Emission	2437.000	40.000000	PASS
Minimum Emission Bandwidth 6 dB	2452.000	40.000000	PASS
Power Spectral Density	2452.000	40.000000	PASS
Occupied Channel Bandwidth 99%	2452.000	40.000000	PASS
Tx Spurious Emission	2452.000	40.000000	PASS

RF output power (2412 MHz; 24.000 dBm; 20 MHz)

Customized settings.

Result

DUT Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	DutyCycle (%)	Result
2412.000000	21.7	30.0	21.7	99.718	PASS

OSP PowerMeter settings

Setting	Instrument Value	Target Value
Measurement Time	1.000 s	1.000 s
Points	1000000	1000000
Time resolution	1.000 μ s	1.000 μ s

Minimum Emission Bandwidth 6 dB (2412 MHz; 24.000 dBm; 20 MHz)

Customized settings.

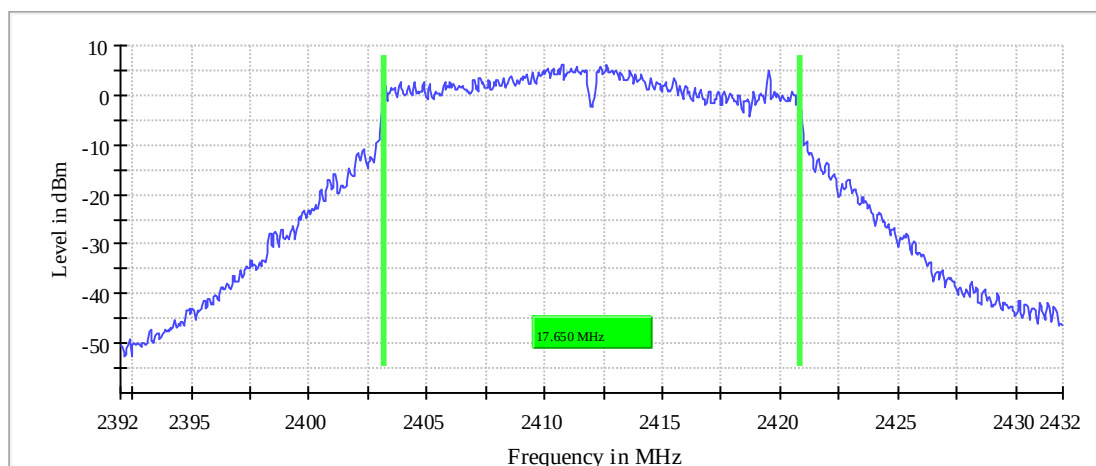
6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2412.000000	17.650000	0.500000	---	2403.175000	2420.825000

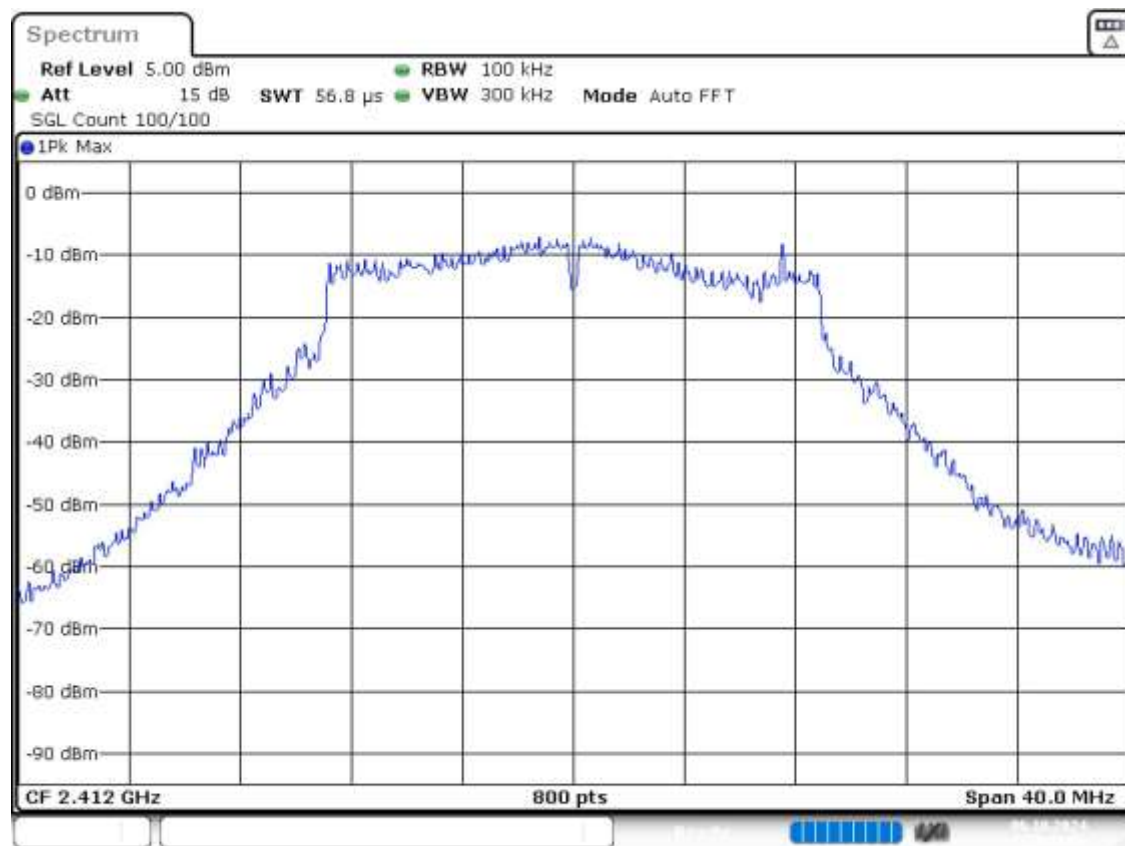
(continuation of the "6 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2412.000000	6.1	PASS

6 dB Bandwidth



Bandwidth



Date: 6.OCT.2024 23:42:52

Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.39200 GHz	2.39200 GHz
Stop Frequency	2.43200 GHz	2.43200 GHz
Span	40.000 MHz	40.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	~ 300.000 kHz
SweepPoints	800	~ 800
SweepTime	56.836 μ s	AUTO
Reference Level	5.000 dBm	AUTO
Attenuation	15.000 dB	5.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

Power Spectral Density (2412 MHz; 24.000 dBm; 20 MHz)

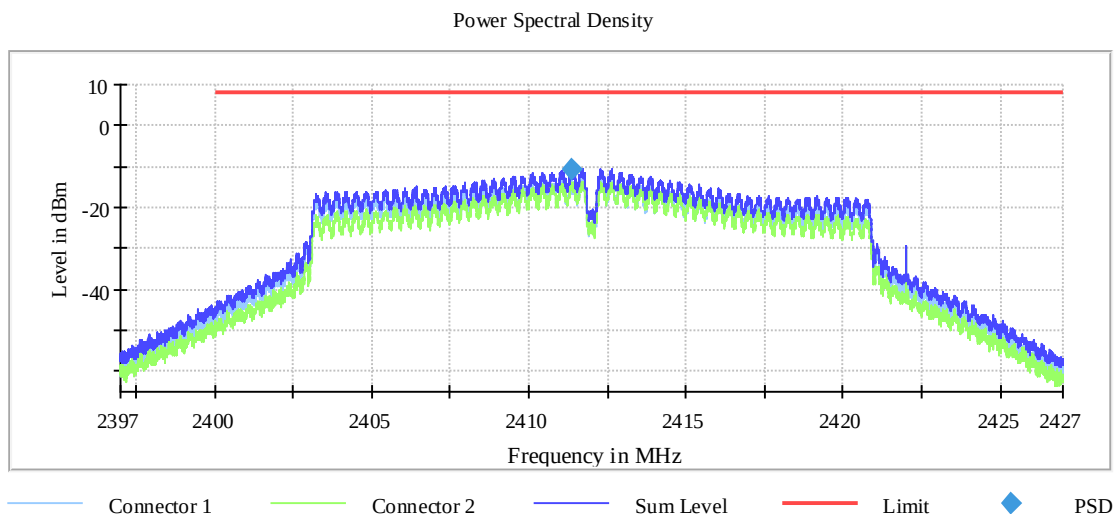
Customized settings.

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2412.000000	2411.366250	-10.576	8.0	PASS

Ports

Port	State
1	used
2	used



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.39700 GHz	2.39700 GHz
Stop Frequency	2.42700 GHz	2.42700 GHz
Span	30.000 MHz	30.000 MHz
RBW	3.000 kHz	<= 3.000 kHz
VBW	10.000 kHz	>= 9.000 kHz
SweepPoints	20000	~ 20000
SweepTime	4.424 ms	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	RMS	RMS
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Average Power	Average Power
SweepType	FFT	AUTO
Preamp	off	off

Occupied Channel Bandwidth 99% (2412 MHz; 24.000 dBm; 20 MHz)

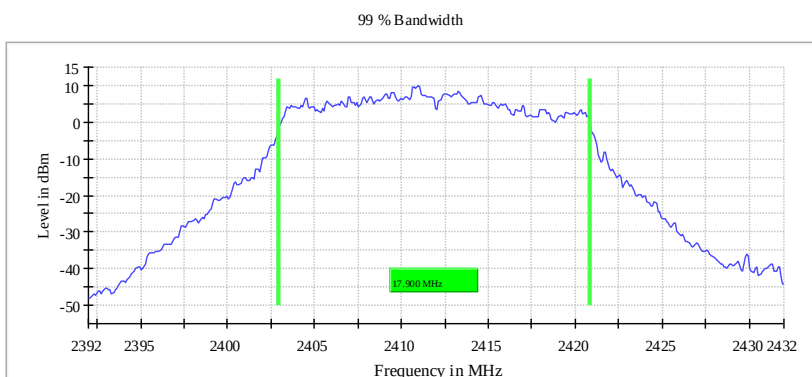
Customized settings.

99 % Bandwidth

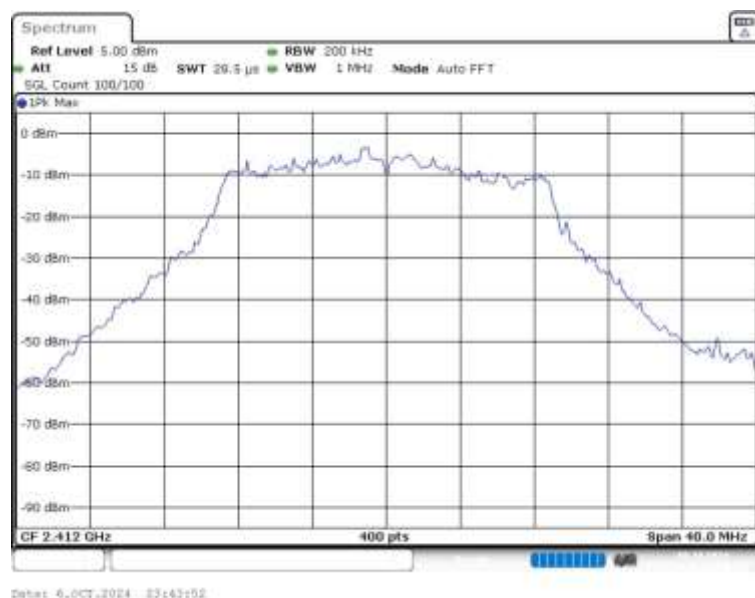
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2412.000000	17.900000	---	---	2402.950000	2420.850000

(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Result
2412.000000	PASS



Bandwidth



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.39200 GHz	2.39200 GHz
Stop Frequency	2.43200 GHz	2.43200 GHz
Span	40.000 MHz	40.000 MHz
RBW	200.000 kHz	>= 200.000 kHz
VBW	1.000 MHz	>= 600.000 kHz
SweepPoints	400	~ 400
SweepTime	28.477 μ s	AUTO
Reference Level	5.000 dBm	AUTO
Attenuation	15.000 dB	5.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

Tx Spurious Emission (2412 MHz; 24.000 dBm; 20 MHz)

Customized settings.

Result

DUT Frequency (MHz)	Result
2412.000000	PASS

Final measurements

Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
---	---	---	---	---	---

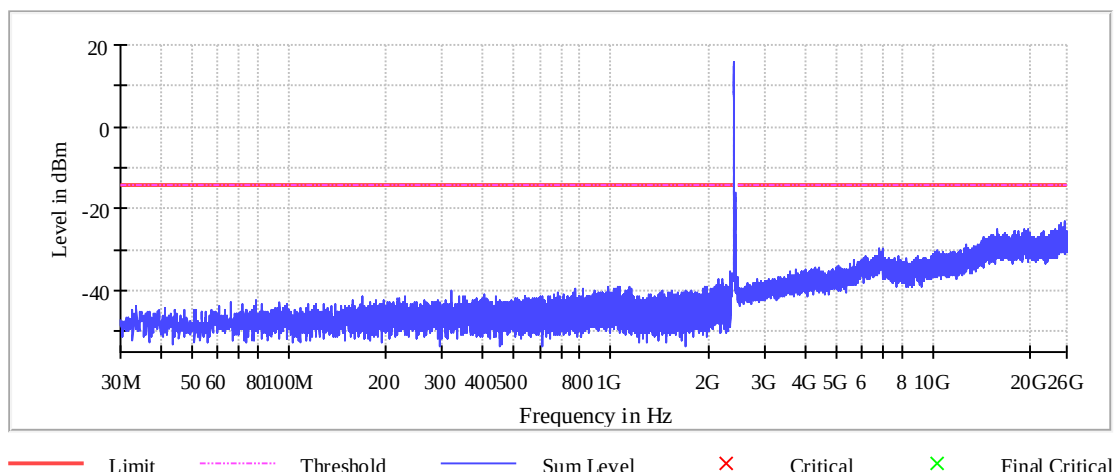
Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
2399.825000	-14.8	0.8	-14.0
2399.775000	-15.1	1.1	-14.0
2399.875000	-15.2	1.1	-14.0
2399.725000	-15.7	1.6	-14.0
2399.525000	-16.3	2.2	-14.0
2399.475000	-16.3	2.2	-14.0
2399.625000	-16.4	2.4	-14.0
2399.925000	-16.5	2.5	-14.0
2399.575000	-16.8	2.7	-14.0
2399.175000	-16.8	2.8	-14.0
2399.975000	-16.9	2.9	-14.0
2399.675000	-17.1	3.1	-14.0
2399.225000	-17.2	3.2	-14.0
2399.125000	-17.5	3.5	-14.0
2399.325000	-17.6	3.5	-14.0

Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
30.000000	2350.000000	1	1
2350.000000	2483.500000	2	1
2483.500000	26000.000000	1	1

Spurious



Pre Measurement 1

Setting	Instrument Value	Target Value
RBW	100.000 kHz	≤ 100.000 kHz
VBW	300.000 kHz	≥ 300.000 kHz
SweepPoints	32001	~ 46400
SweepTime	32.100 ms	AUTO
Reference Level	20.000 dBm	20.000 dBm
Attenuation	40.000 dB	40.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	3	3
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off

Pre Measurement 2

Setting	Instrument Value	Target Value
RBW	100.000 kHz	≤ 100.000 kHz
VBW	300.000 kHz	≥ 300.000 kHz
SweepPoints	2670	~ 2670
SweepTime	151.563 μ s	AUTO
Reference Level	20.000 dBm	20.000 dBm
Attenuation	40.000 dB	40.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	300	300
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

Minimum Emission Bandwidth 6 dB (2437 MHz; 24.000 dBm; 20 MHz)

Customized settings.

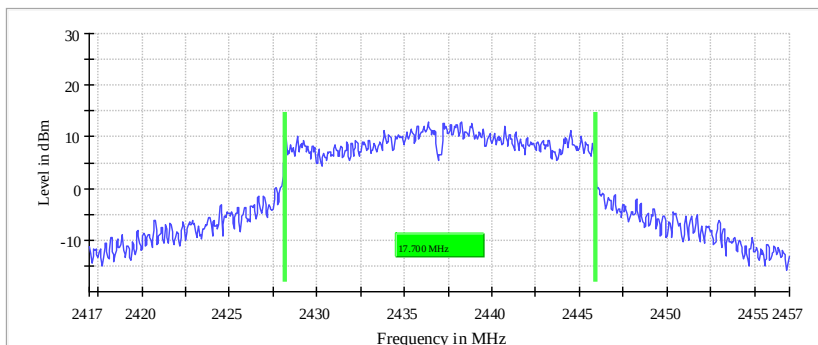
6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2437.000000	17.700000	0.500000	---	2428.175000	2445.875000

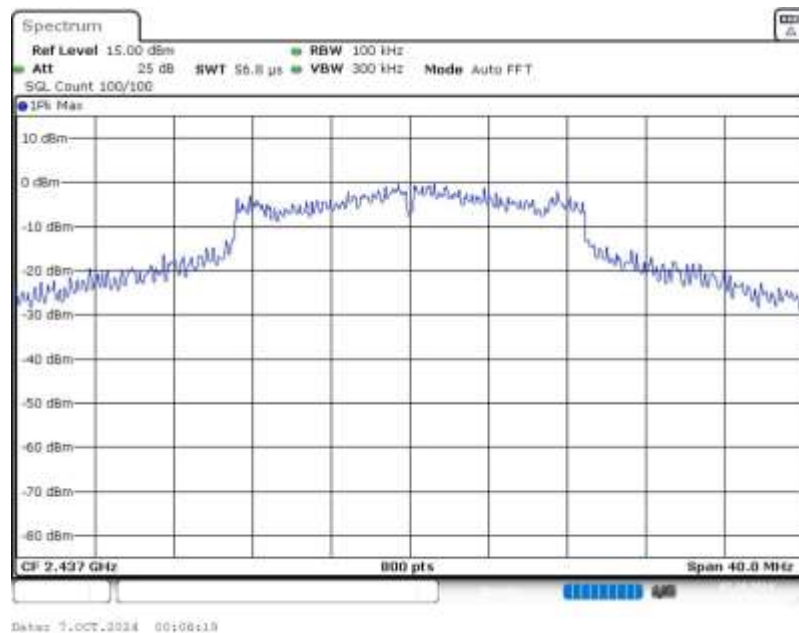
(continuation of the "6 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2437.000000	12.9	PASS

6 dB Bandwidth



Bandwidth



Power Spectral Density (2437 MHz; 24.000 dBm; 20 MHz)

Customized settings.

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2437.000000	2437.615750	-5.954	8.0	PASS

Ports

Port	State
1	used
2	used



Occupied Channel Bandwidth 99% (2437 MHz; 24.000 dBm; 20 MHz)

Customized settings.

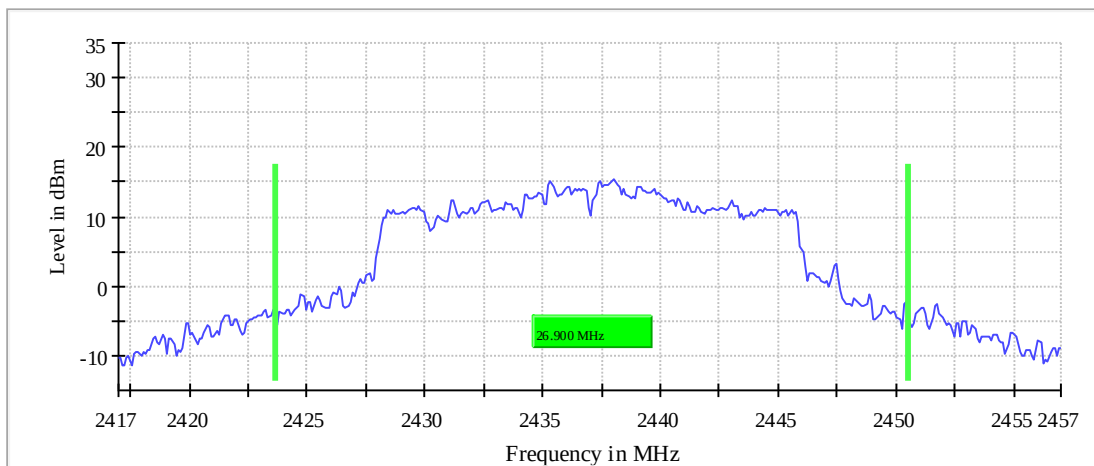
99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2437.000000	26.900000	---	---	2423.650000	2450.550000

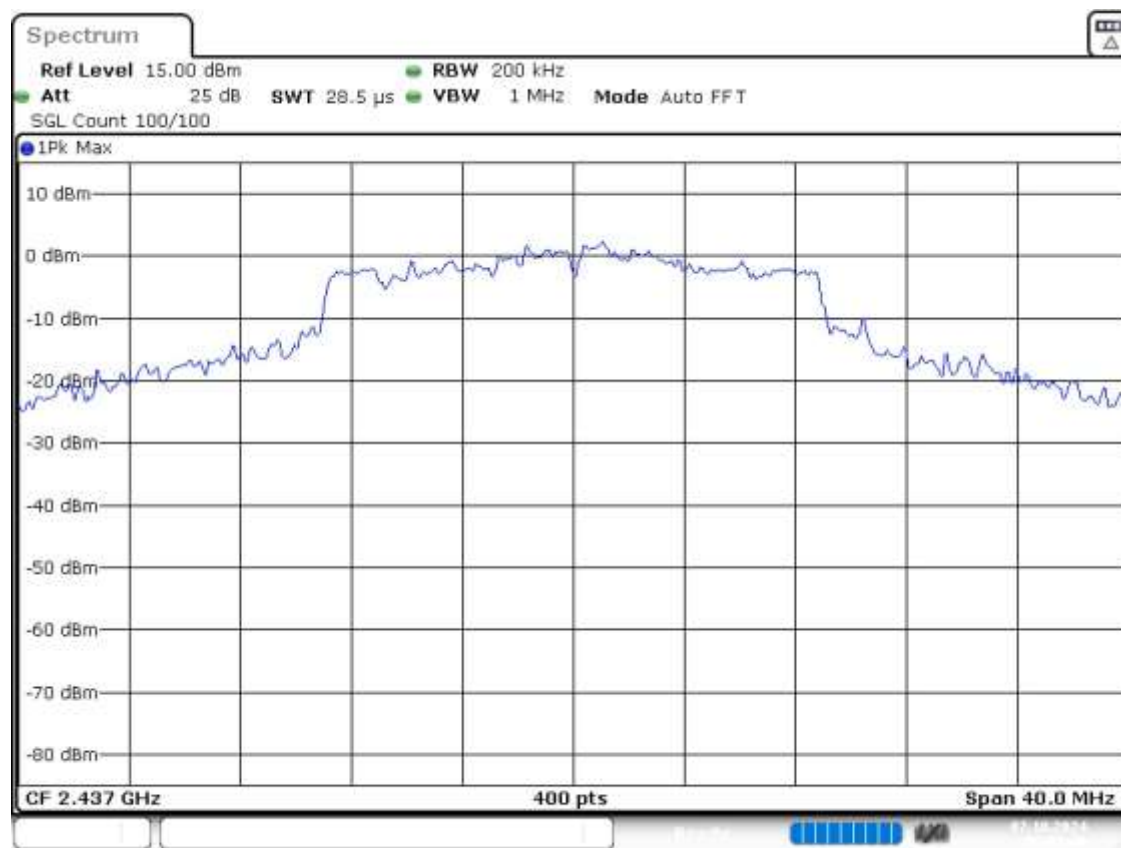
(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Result
2437.000000	PASS

99 % Bandwidth



Bandwidth



Date: 7.OCT.2024 00:07:44

Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.41700 GHz	2.41700 GHz
Stop Frequency	2.45700 GHz	2.45700 GHz
Span	40.000 MHz	40.000 MHz
RBW	200.000 kHz	>= 200.000 kHz
VBW	1.000 MHz	>= 600.000 kHz
SweepPoints	400	~ 400
SweepTime	28.477 μ s	AUTO
Reference Level	15.000 dBm	AUTO
Attenuation	25.000 dB	5.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

Tx Spurious Emission (2437 MHz; 24.000 dBm; 20 MHz)

Customized settings.

Result

DUT Frequency (MHz)	Result
2437.000000	PASS

Final measurements

Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
2398.923254	-10.6	-19.4	-8.6	10.9	PASS

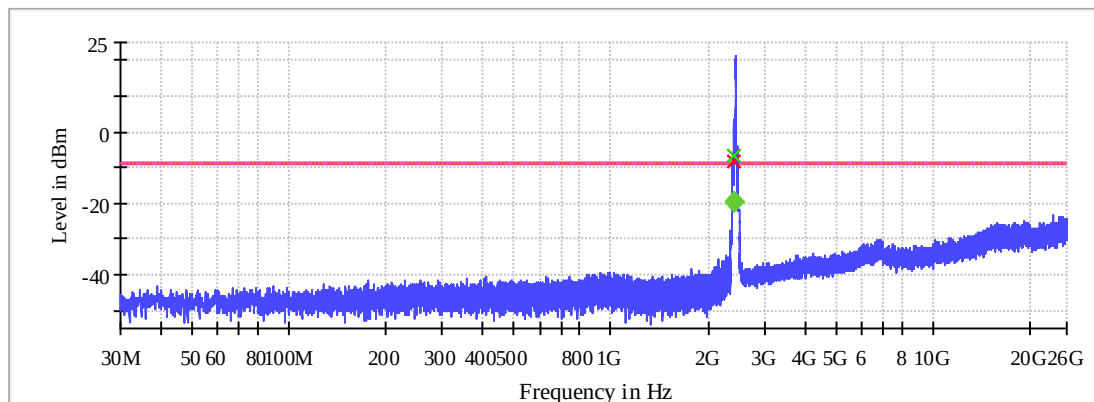
Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
2398.225000	-6.4	-2.1	-8.6
2398.275000	-6.5	-2.1	-8.6
2397.375000	-8.4	-0.2	-8.6
2398.175000	-8.4	-0.1	-8.6
2398.325000	-9.0	0.4	-8.6
2397.425000	-9.0	0.5	-8.6
2397.325000	-9.1	0.6	-8.6
2389.825000	-9.2	0.6	-8.6
2389.875000	-9.2	0.6	-8.6
2399.225000	-9.7	1.1	-8.6
2397.975000	-9.7	1.1	-8.6
2399.175000	-9.8	1.2	-8.6
2397.025000	-9.8	1.3	-8.6
2396.375000	-9.9	1.3	-8.6
2396.975000	-9.9	1.3	-8.6

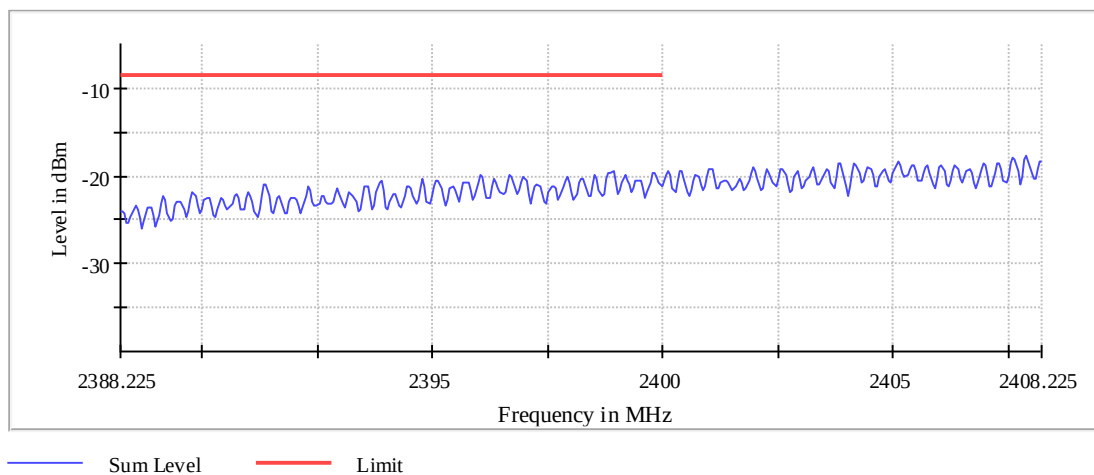
Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
30.000000	2350.000000	1	1
2350.000000	2483.500000	2	1
2483.500000	26000.000000	1	1

Spurious



FinalMeas_2398225000Hz



Minimum Emission Bandwidth 6 dB (2462 MHz; 24.000 dBm; 20 MHz)

Customized settings.

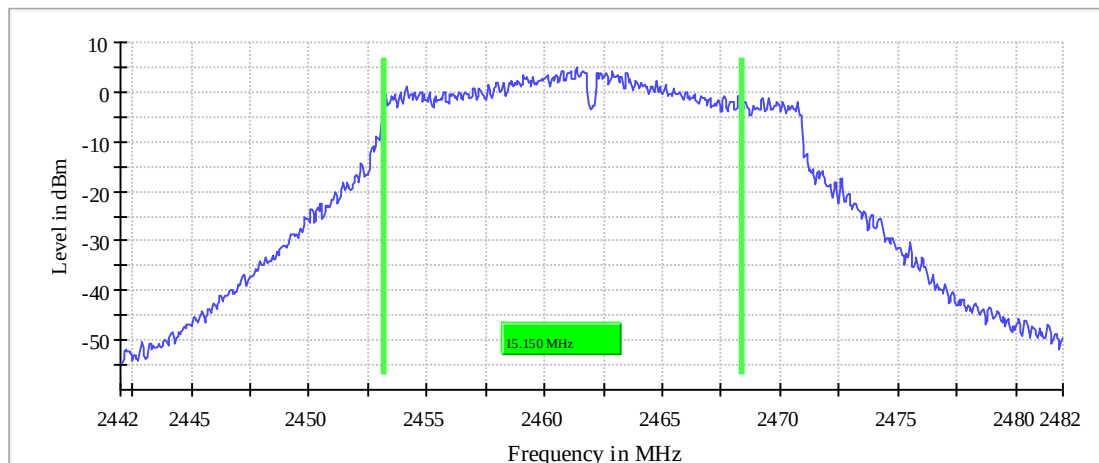
6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2462.000000	15.150000	0.500000	---	2453.175000	2468.325000

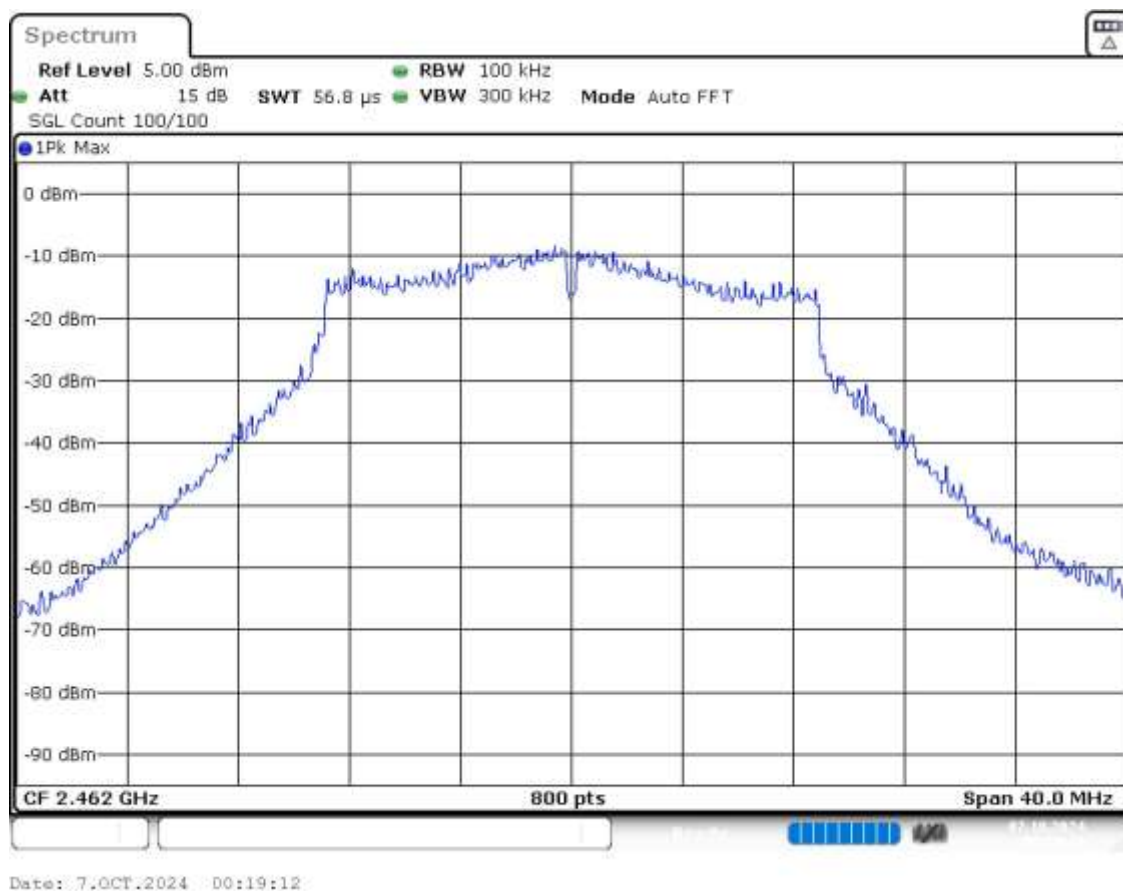
(continuation of the "6 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2462.000000	5.0	PASS

6 dB Bandwidth



Bandwidth



Power Spectral Density (2462 MHz; 24.000 dBm; 20 MHz)

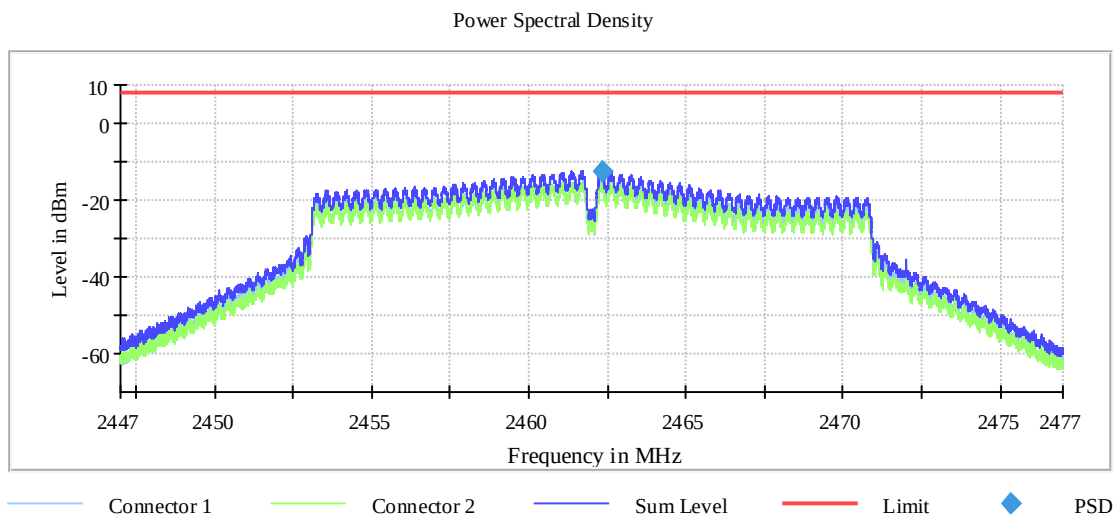
Customized settings.

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2462.000000	2462.312750	-12.488	8.0	PASS

Ports

Port	State
1	used
2	used



Occupied Channel Bandwidth 99% (2462 MHz; 24.000 dBm; 20 MHz)

Customized settings.

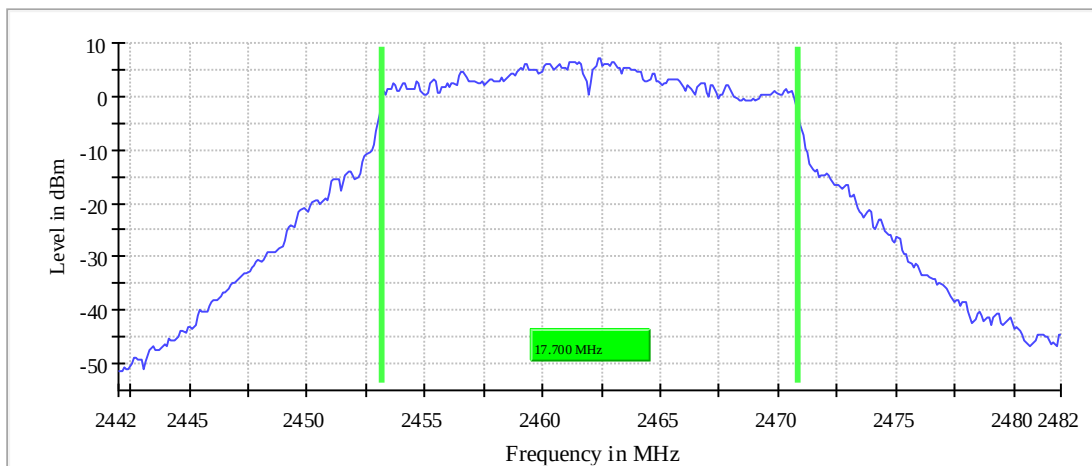
99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2462.000000	17.700000	---	---	2453.150000	2470.850000

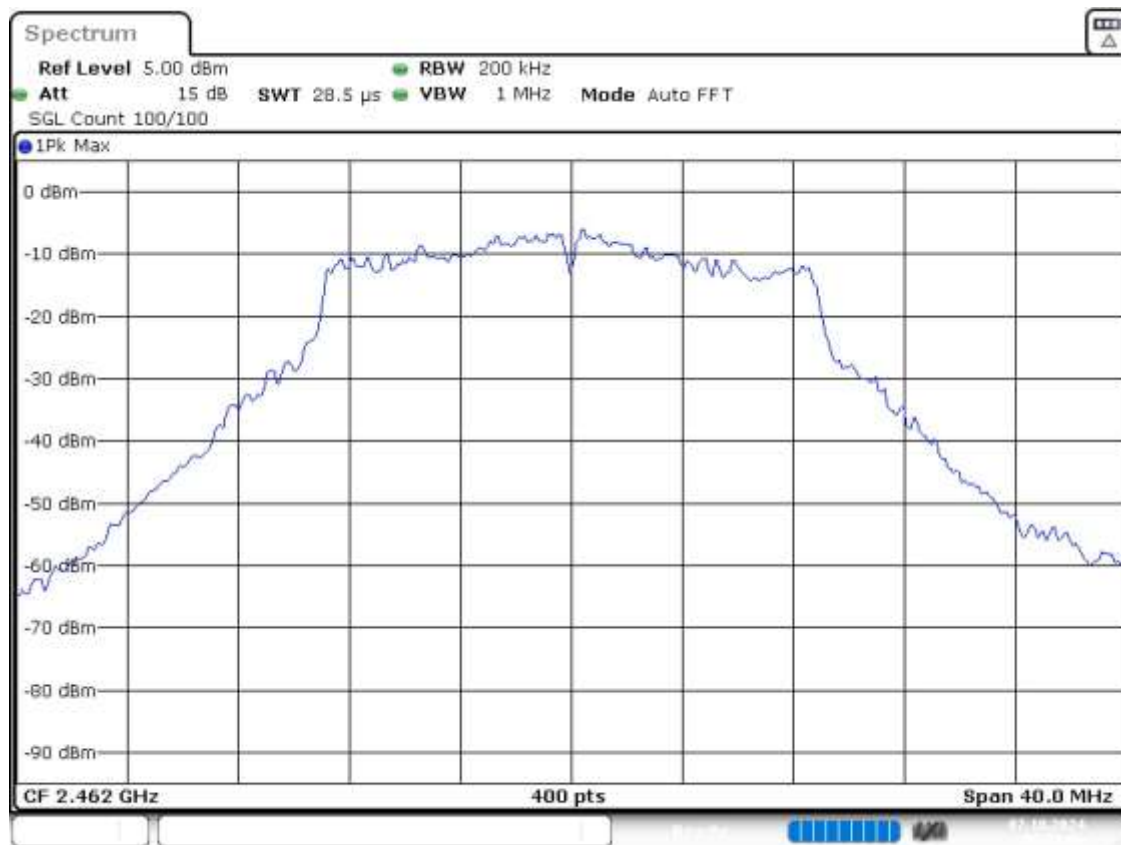
(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Result
2462.000000	PASS

99 % Bandwidth



Bandwidth



Date: 7.OCT.2024 D0:20:06

Measurement

TR9497_U7-Pro-Outdoor_FCC_15247_WiFi_Ext_Annex_01

PROPRIETARY

Setting	Instrument Value	Target Value
Start Frequency	2.44200 GHz	2.44200 GHz
Stop Frequency	2.48200 GHz	2.48200 GHz
Span	40.000 MHz	40.000 MHz
RBW	200.000 kHz	>= 200.000 kHz
VBW	1.000 MHz	>= 600.000 kHz
SweepPoints	400	~ 400
SweepTime	28.477 μ s	AUTO
Reference Level	5.000 dBm	AUTO
Attenuation	15.000 dB	5.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

Tx Spurious Emission (2462 MHz; 24.000 dBm; 20 MHz)

Customized settings.

Result

DUT Frequency (MHz)	Result
2462.000000	PASS

Final measurements

Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
---	---	---	---	---	---

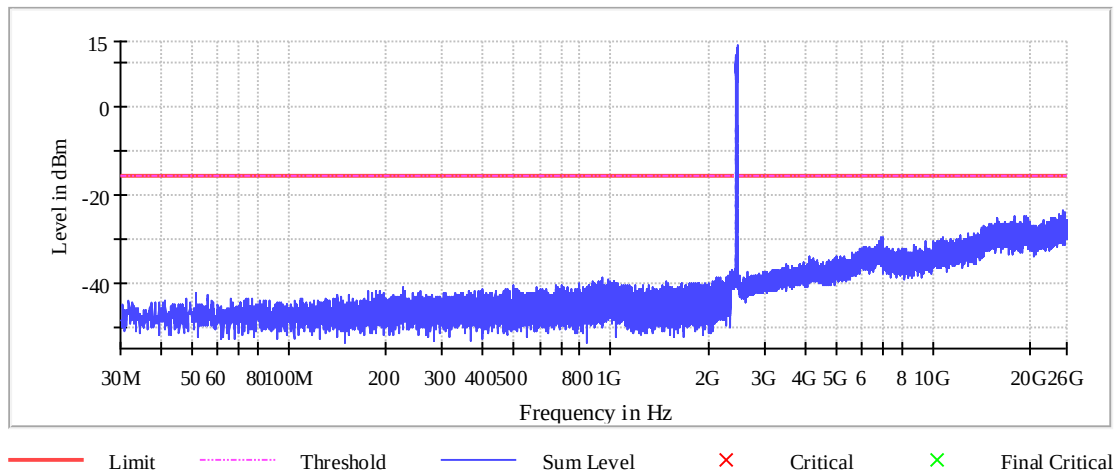
Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
25158.943963	-23.5	7.7	-15.7
25358.093099	-23.8	8.1	-15.7
25524.908058	-24.0	8.3	-15.7
25532.991602	-24.4	8.6	-15.7
25173.641316	-24.4	8.7	-15.7
24698.181940	-24.5	8.8	-15.7
25569.734985	-24.6	8.8	-15.7
25607.213236	-24.7	8.9	-15.7
25178.785390	-24.8	9.1	-15.7
25036.955931	-24.8	9.1	-15.7
17778.668049	-24.8	9.1	-15.7
25017.849372	-24.8	9.1	-15.7
17777.933182	-24.9	9.1	-15.7
19457.105786	-24.9	9.2	-15.7
19083.058147	-24.9	9.2	-15.7

Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
30.000000	2350.000000	1	1
2350.000000	2483.500000	2	1
2483.500000	26000.000000	1	1

Spurious



Minimum Emission Bandwidth 6 dB (2422 MHz; 24.000 dBm; 40 MHz)

Customized settings.

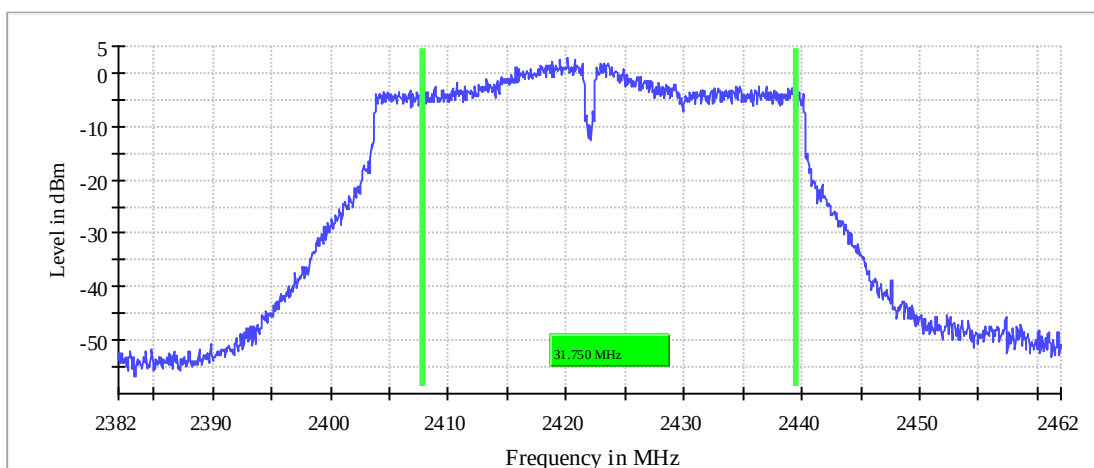
6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2422.000000	31.750000	0.500000	---	2407.825000	2439.575000

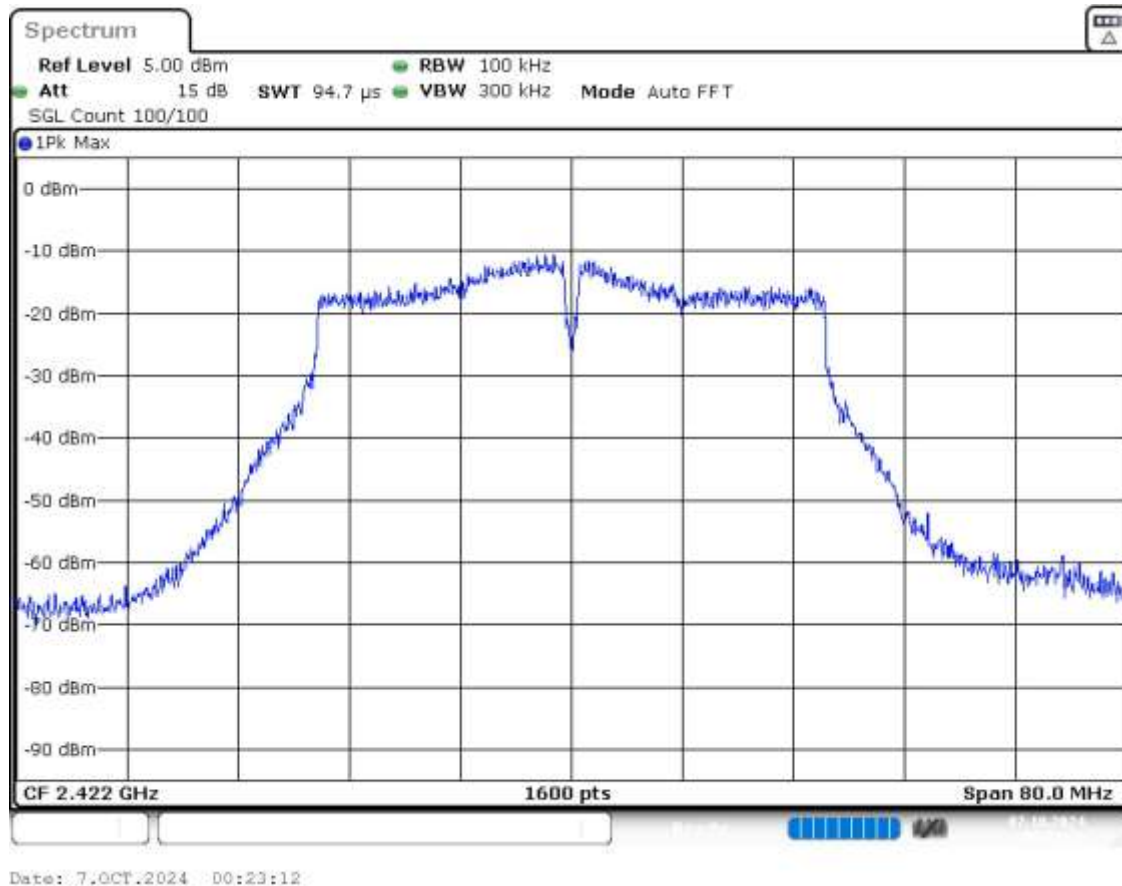
(continuation of the "6 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2422.000000	2.7	PASS

6 dB Bandwidth



Bandwidth



Power Spectral Density (2422 MHz; 24.000 dBm; 40 MHz)

Customized settings.

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2422.000000	2421.375645	-14.757	8.0	PASS

Ports

Port	State
1	used
2	used



Occupied Channel Bandwidth 99% (2422 MHz; 24.000 dBm; 40 MHz)

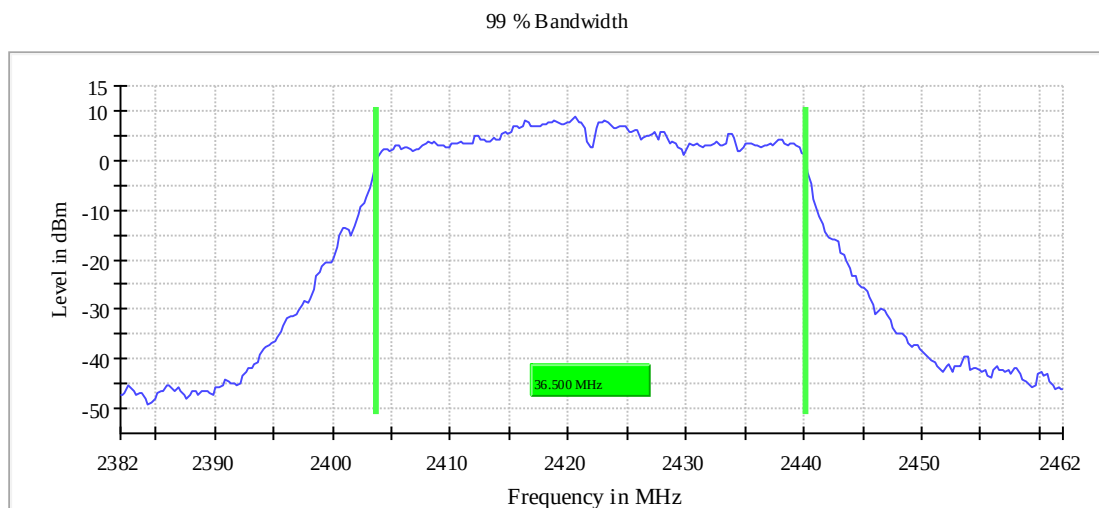
Customized settings.

99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2422.000000	36.500000	---	---	2403.625000	2440.125000

(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Result
2422.000000	PASS



Bandwidth



Date: 7.OCT.2024 D0:24:27

Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.38200 GHz	2.38200 GHz
Stop Frequency	2.46200 GHz	2.46200 GHz
Span	80.000 MHz	80.000 MHz
RBW	500.000 kHz	≥ 400.000 kHz
VBW	2.000 MHz	≥ 1.500 MHz
SweepPoints	320	~ 320
Sweeptime	18.906 μ s	AUTO
Reference Level	5.000 dBm	AUTO
Attenuation	15.000 dB	5.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

Tx Spurious Emission (2422 MHz; 24.000 dBm; 40 MHz)

Customized settings.

Result

DUT Frequency (MHz)	Result
2422.000000	PASS

Final measurements

Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
2399.775125	-18.6	-27.7	-18.2	9.5	PASS

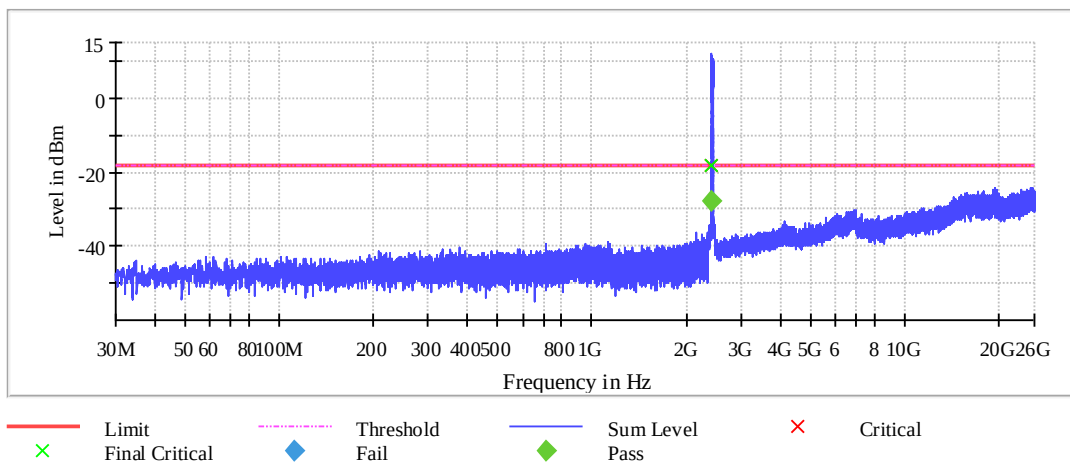
Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
2399.825000	-18.2	0.0	-18.2
2399.775000	-18.6	0.3	-18.2
2399.875000	-19.5	1.3	-18.2
2399.525000	-19.8	1.6	-18.2
2399.725000	-19.9	1.7	-18.2
2399.275000	-20.0	1.8	-18.2
2399.475000	-20.2	2.0	-18.2
2399.225000	-20.4	2.2	-18.2
2399.575000	-20.5	2.2	-18.2
2399.675000	-20.5	2.3	-18.2
2399.175000	-20.9	2.6	-18.2
2399.325000	-20.9	2.7	-18.2
2399.625000	-21.1	2.8	-18.2
2399.125000	-21.3	3.1	-18.2
2399.975000	-21.4	3.2	-18.2

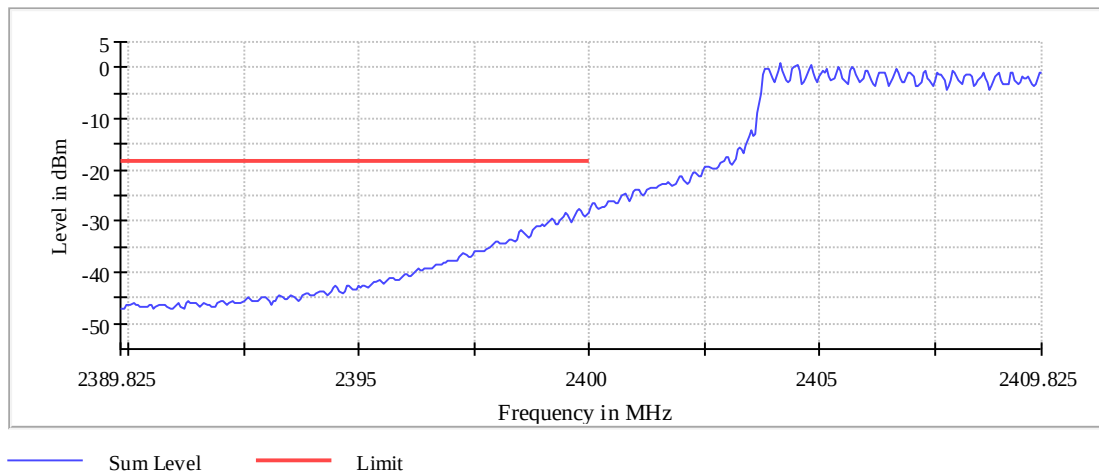
Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
30.000000	2350.000000	1	1
2350.000000	2483.500000	2	1
2483.500000	26000.000000	1	1

Spurious



FinalMeas_2399825000Hz



Minimum Emission Bandwidth 6 dB (2437 MHz; 24.000 dBm; 40 MHz)

Customized settings.

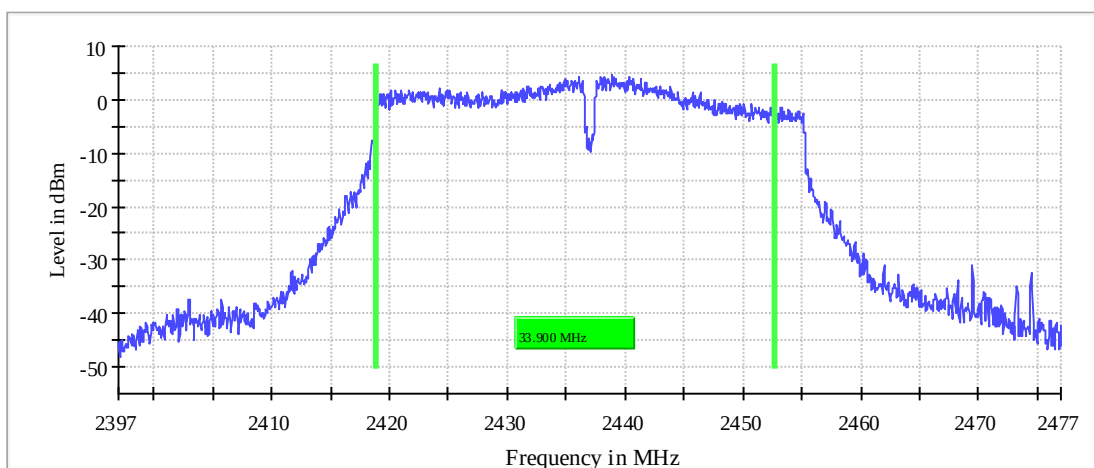
6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2437.000000	33.900000	0.500000	---	2418.775000	2452.675000

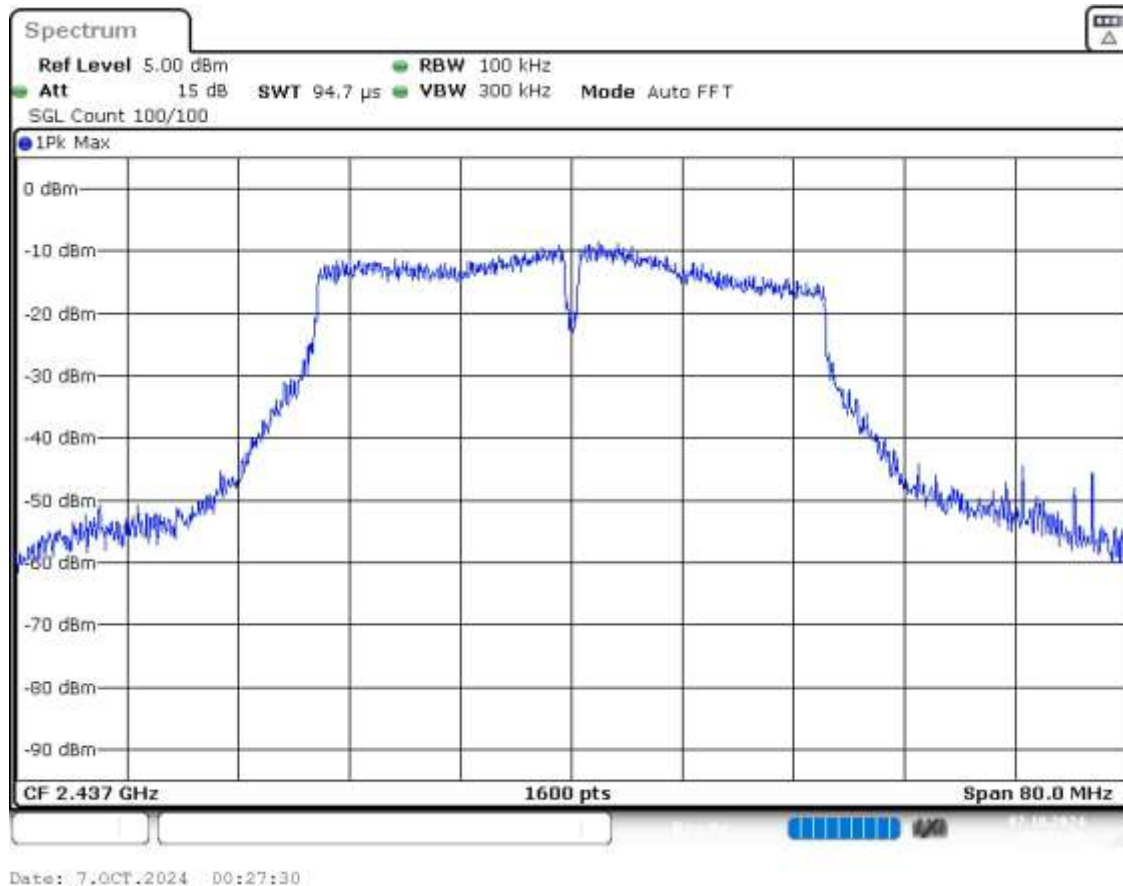
(continuation of the "6 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2437.000000	4.7	PASS

6 dB Bandwidth



Bandwidth



Power Spectral Density (2437 MHz; 24.000 dBm; 40 MHz)

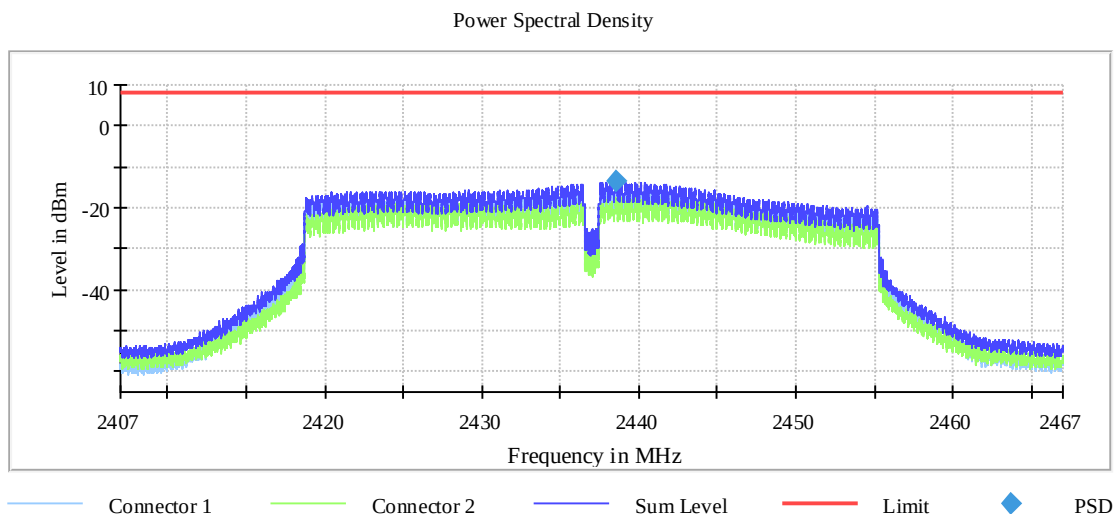
Customized settings.

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2437.000000	2438.556201	-13.553	8.0	PASS

Ports

Port	State
1	used
2	used



Occupied Channel Bandwidth 99% (2437 MHz; 24.000 dBm; 40 MHz)

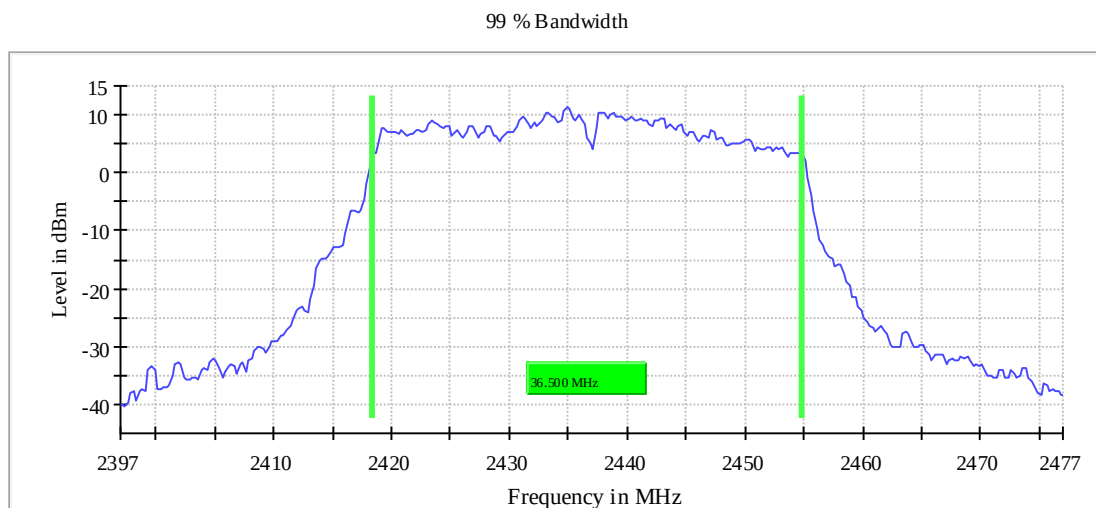
Customized settings.

99 % Bandwidth

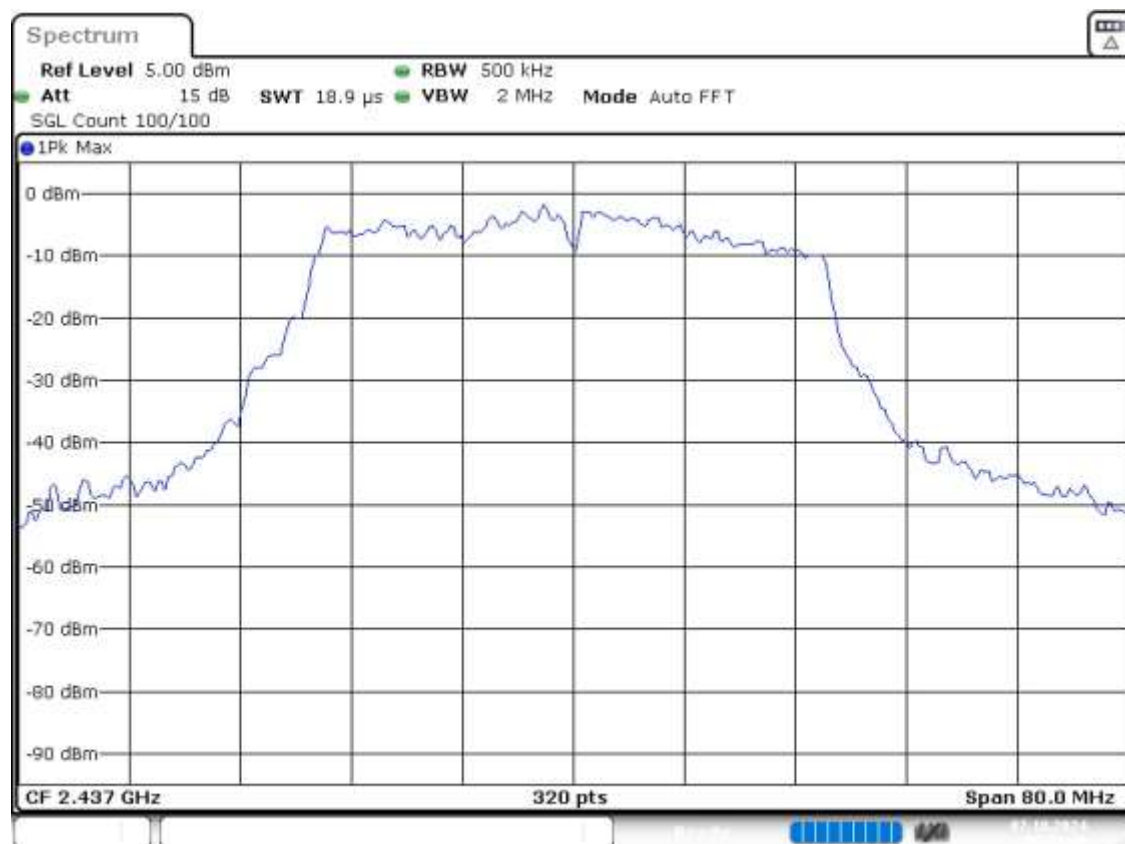
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2437.000000	36.500000	---	---	2418.375000	2454.875000

(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Result
2437.000000	PASS



Bandwidth



Date: 7.OCT.2024 D0:28:46

Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.39700 GHz	2.39700 GHz
Stop Frequency	2.47700 GHz	2.47700 GHz
Span	80.000 MHz	80.000 MHz
RBW	500.000 kHz	≥ 400.000 kHz
VBW	2.000 MHz	≥ 1.500 MHz
SweepPoints	320	~ 320
Sweptime	18.906 μ s	AUTO
Reference Level	5.000 dBm	AUTO
Attenuation	15.000 dB	5.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

Tx Spurious Emission (2437 MHz; 24.000 dBm; 40 MHz)

Customized settings.

Result

DUT Frequency (MHz)	Result
2437.000000	PASS

Final measurements

Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
---	---	---	---	---	---

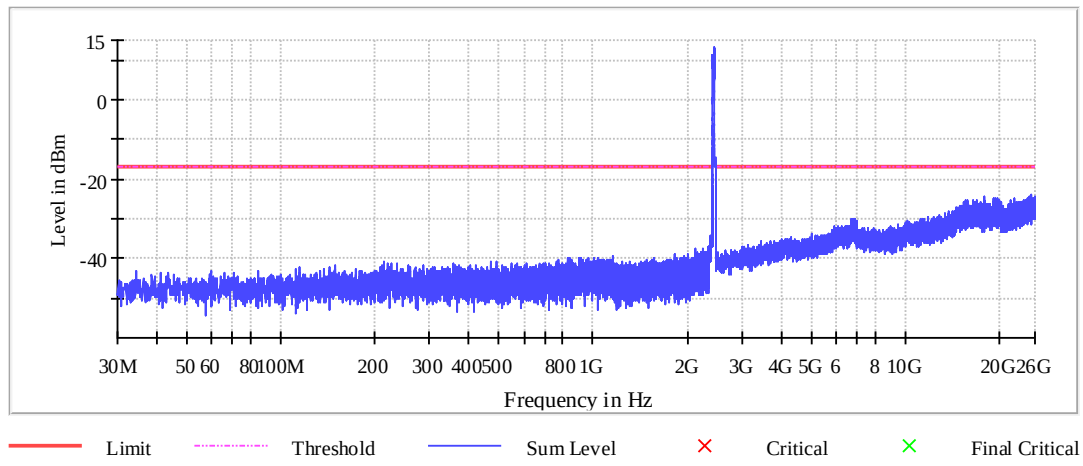
Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
25137.632801	-23.8	7.1	-16.7
2399.525000	-24.0	7.3	-16.7
17797.039741	-24.4	7.7	-16.7
25070.759843	-24.5	7.8	-16.7
25870.295858	-24.6	7.8	-16.7
24773.873309	-24.6	7.9	-16.7
2399.575000	-24.6	7.9	-16.7
24693.037866	-24.7	8.0	-16.7
25153.065021	-24.7	8.0	-16.7
19493.849169	-24.7	8.0	-16.7
25096.480212	-24.8	8.1	-16.7
25935.699080	-24.9	8.2	-16.7
25198.626816	-24.9	8.2	-16.7
25427.170659	-24.9	8.2	-16.7
24823.844310	-24.9	8.2	-16.7

Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
30.000000	2350.000000	1	1
2350.000000	2483.500000	2	1
2483.500000	26000.000000	1	1

Spurious



Minimum Emission Bandwidth 6 dB (2452 MHz; 24.000 dBm; 40 MHz)

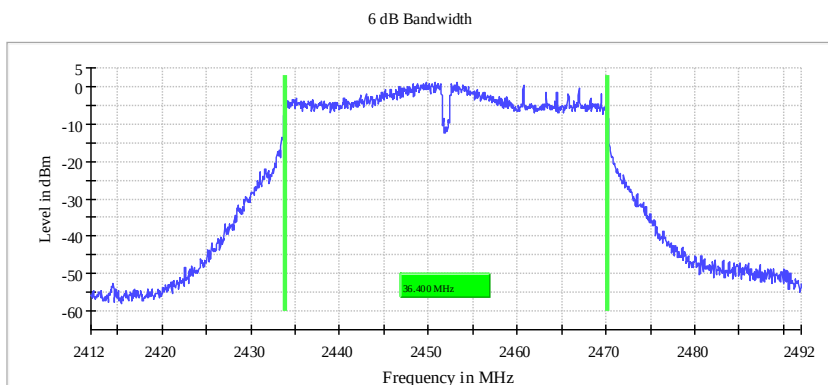
Customized settings.

6 dB Bandwidth

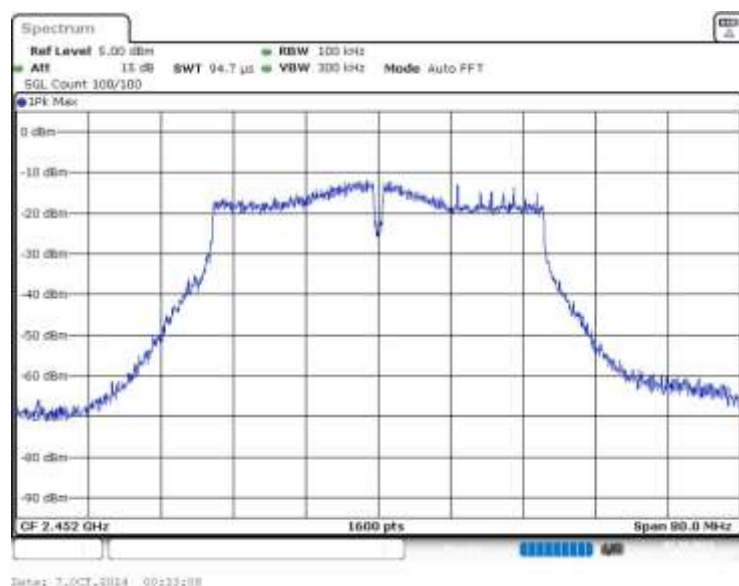
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2452.000000	36.400000	0.500000	---	2433.775000	2470.175000

(continuation of the "6 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2452.000000	1.2	PASS



Bandwidth



Power Spectral Density (2452 MHz; 24.000 dBm; 40 MHz)

Customized settings.

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2452.000000	2450.147558	-15.801	8.0	PASS

Ports

Port	State
1	used
2	used



Occupied Channel Bandwidth 99% (2452 MHz; 24.000 dBm; 40 MHz)

Customized settings.

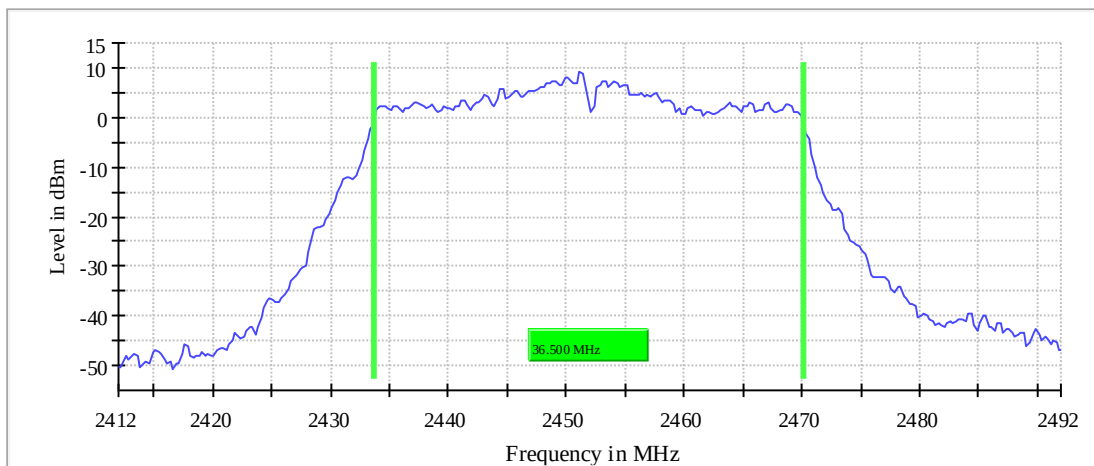
99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2452.000000	36.500000	---	---	2433.625000	2470.125000

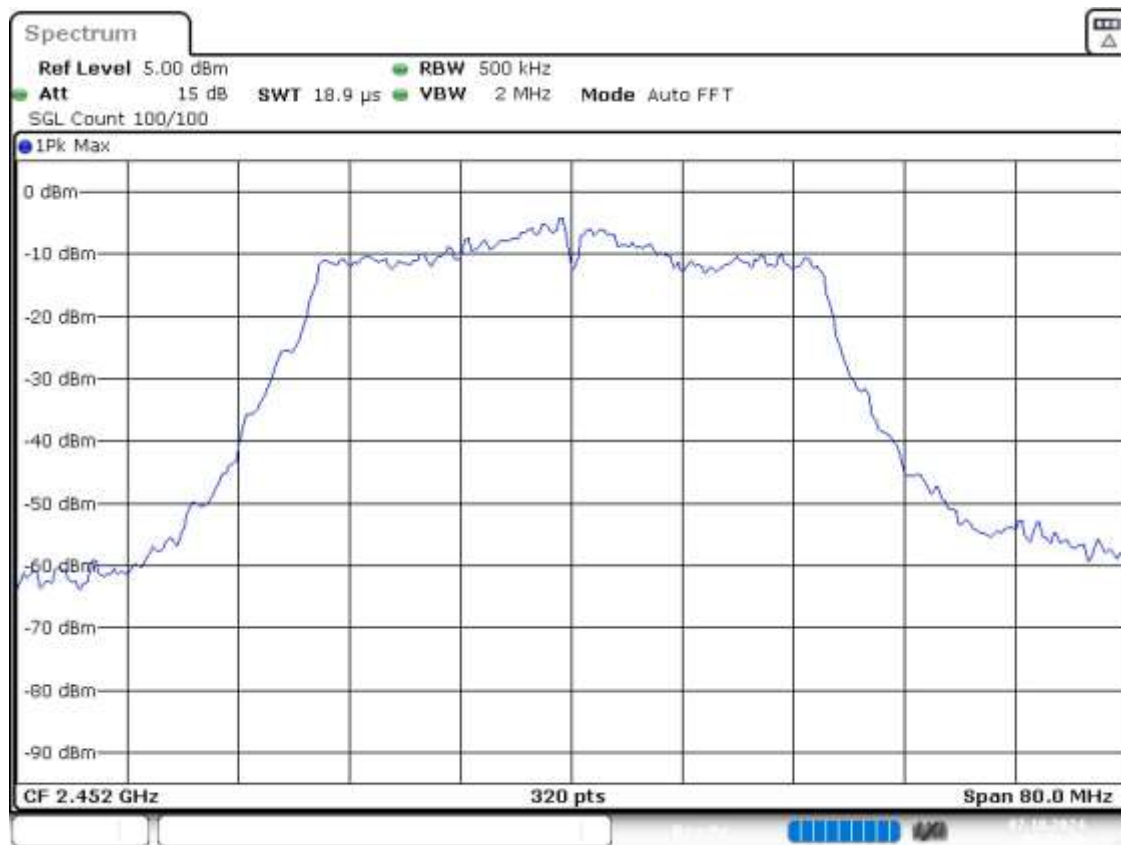
(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Result
2452.000000	PASS

99 % Bandwidth



Bandwidth



Date: 7.OCT.2024 D0:34:31

Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.41200 GHz	2.41200 GHz
Stop Frequency	2.49200 GHz	2.49200 GHz
Span	80.000 MHz	80.000 MHz
RBW	500.000 kHz	>= 400.000 kHz
VBW	2.000 MHz	>= 1.500 MHz
SweepPoints	320	~ 320
SweepTime	18.906 μ s	AUTO
Reference Level	5.000 dBm	AUTO
Attenuation	15.000 dB	5.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

Tx Spurious Emission (2452 MHz; 24.000 dBm; 40 MHz)

Customized settings.

Result

DUT Frequency (MHz)	Result
2452.000000	PASS

Final measurements

Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
---	---	---	---	---	---

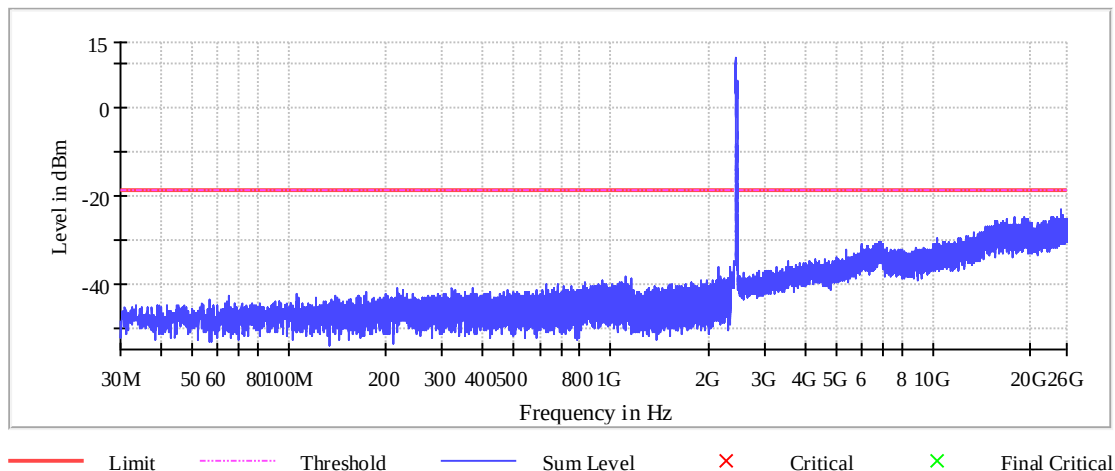
Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
24793.714735	-23.3	4.6	-18.7
25117.056506	-24.5	5.8	-18.7
24420.401964	-24.6	5.9	-18.7
25028.872387	-24.6	6.0	-18.7
25030.342122	-24.7	6.0	-18.7
19096.285765	-24.7	6.0	-18.7
23700.966524	-24.8	6.1	-18.7
24962.734297	-24.9	6.2	-18.7
17780.872652	-24.9	6.2	-18.7
23747.263187	-24.9	6.3	-18.7
25072.964446	-24.9	6.3	-18.7
24792.979868	-25.0	6.3	-18.7
25408.798967	-25.0	6.3	-18.7
23404.079990	-25.0	6.3	-18.7
23701.701392	-25.0	6.3	-18.7

Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
30.000000	2350.000000	1	1
2350.000000	2483.500000	2	1
2483.500000	26000.000000	1	1

Spurious



-- End of Report --